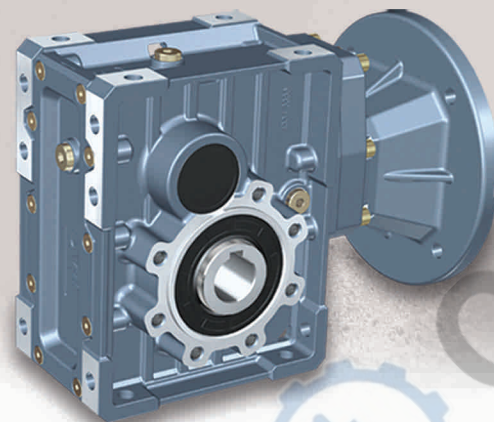
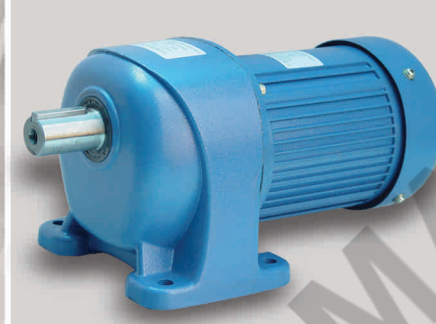
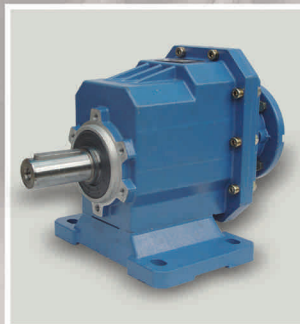
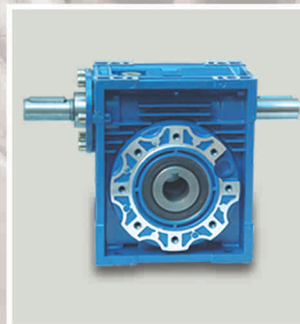
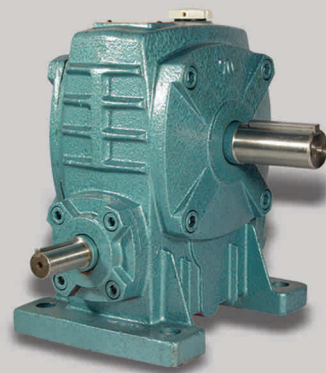
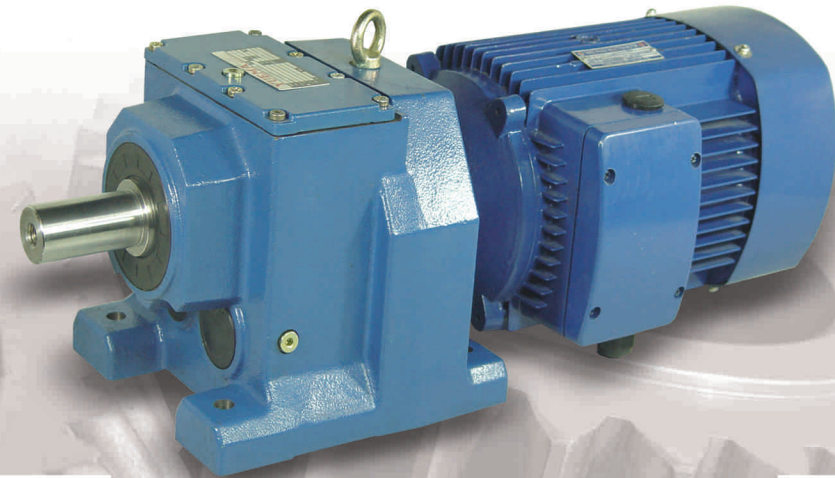


YUEMA

GEAR REDUCER

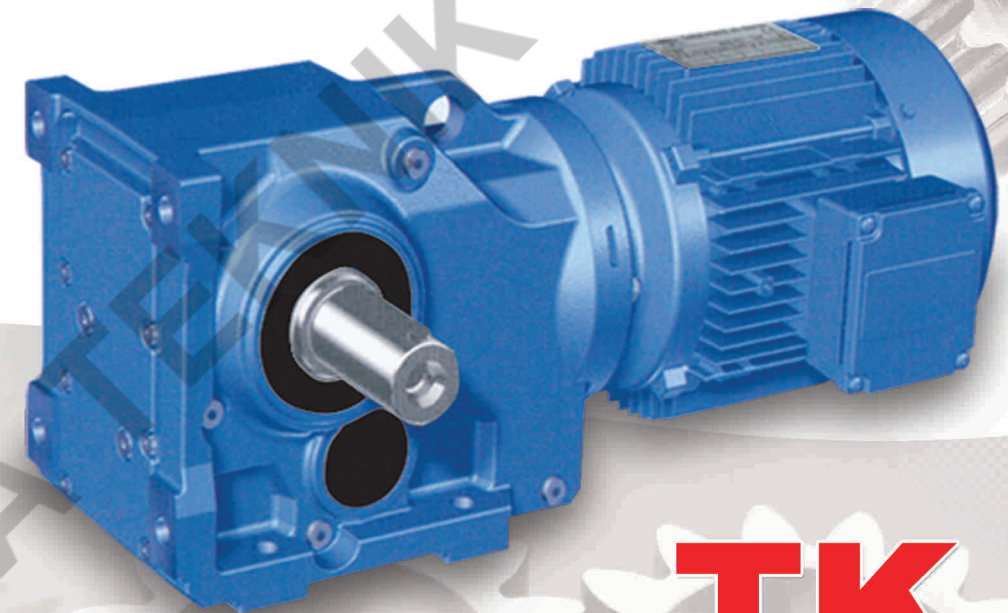


TK - BEVEL GEAR MOTORS

YUEMA

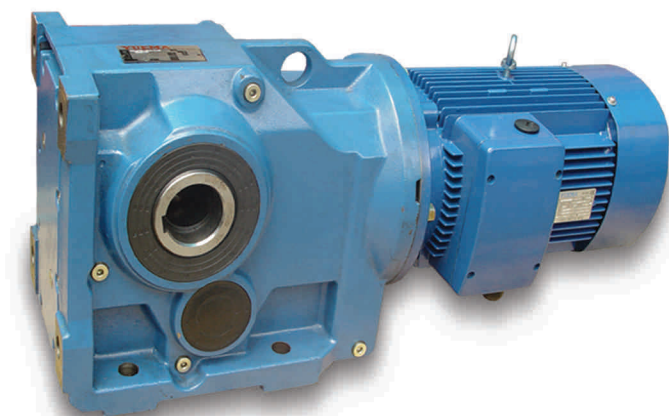
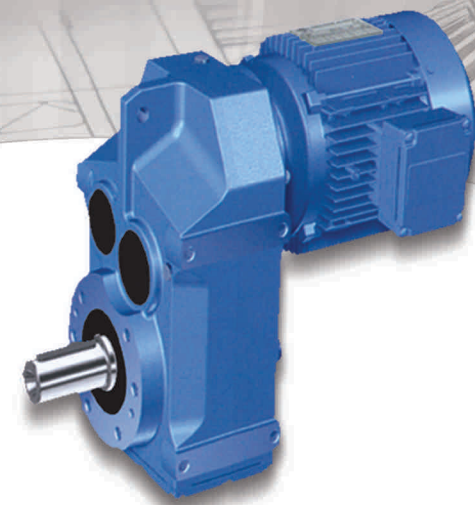
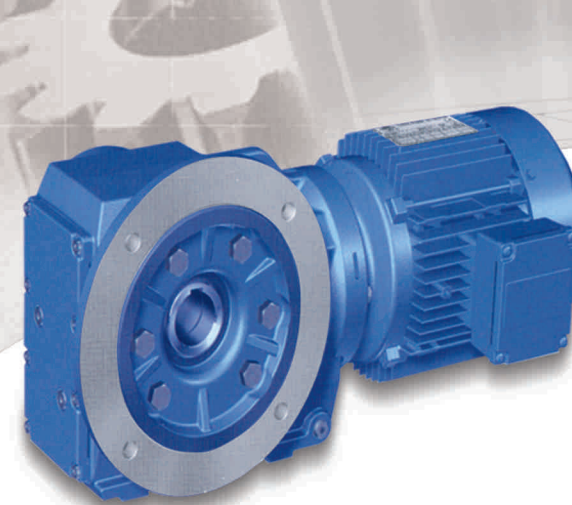
YUEMA

HELICAL BEVEL GEAR



TK

SERIES HELICAL
BEVEL GEARED MOTORS



EFF 2

IEC CE



TA Series



SA Series



Y3A Series



YAL Series



TAB Series



TA B35 Series



SA B5 Series



Y3A B5 Series



YU Series



YWE Series



YAB Series

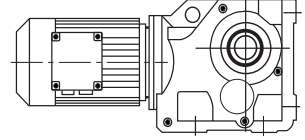


Elektrim Series



YA B5 Series

THE MOTOR CAN BE TRUST



About YUEMA trasmission

Yuema transmission is a technology enterprice integrated research, manufacture and service reducers, and famous for providing high quality products and special transmission solusion to advance industrial nations. Today Yuema transmission's worm gearbox, helical gearbox and stepless reducer are used widely in many field. The security and reliable quality, enthusiastic and exact technical support, and rapid delivery time are able to establish Yuema in global transmission field succesfully.

1. SUMMARIZE

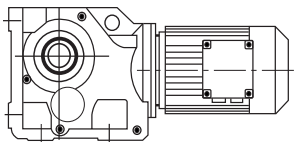
TK Series helical-bevel gearmotor is a new generation mechanic-electrical integrated product, which designed basing on the modular system. It can be connected respectively with motors such as common motor, brake motor, explosion-proof motor, frequency conversion motor, servo motor, IEC motor and so on. It can be mounted discretionary six orientation in solid space. This kind of product is widely used in drive fields such as textile, foodstuff, beverage, chemical industry, automatic arm ladder, automatic storage equipment, metallurgy, tobacco, environment-protection, logistics and so on.

1.1 Performance characteristic

1. □Transmission ratio with fine stage covers a wide range;
2. □Compact structure takes up small room;
3. □low vibration; low noise; low energy dissipation;
4. □Deft design; reliable and wearable; wide usage;
5. □Modular, multistructure, can be combined in many forms to meet needs of all kinds of transmission conditions.□

TK Series helical-bevel gearmotor is formed of helical-bevel gears unit and motor. The helical gear and bevel gear use high quality alloy steel with surface hardening;which shoped by high precision device. All housing are in cast iron. offer precision finishing to ersure the shape and position precision, and it reaches advantageous performance such as: strong bearing capacity, long service-life; small volume; big ratio; light , high efficiency, low noise.□

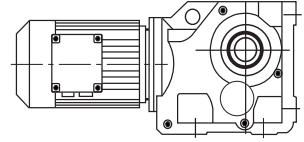
TK Series helical-bevel gearmotor has more than ten models. Combined with TRF series, the multi-stage gear reduction can be achieved. Power 0.12-200KW; Ratio 3.98-32625;Torque 200- 50000Nm. It can connect (foot, flange) discretionary and use multi-mounting positions according to customers' requirements.



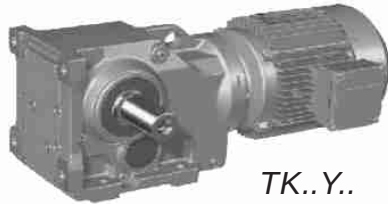
CONTENTS

Page

1.	SUMMARIZE
2 - 4	PRODUCT STRUCTURE PICTURE
5	MODEL ILLUMINATE
6 - 10	RELEVANT PARAMETER
11	SELECTION EXAMPLE
10 - 27	GEAR UNIT SELECTION TABLES
	Possible geometric combinations
30 - 77	TK..Performance parameter
78 - 87	TK../TRF..Performance parameter
	OUTLINE DIMENSION SHEET
88 - 131	TK.. Outline dimension
132	TK../TRF.. Outline dimension
133 - 134	TK..AM(IEC) Outline dimension
135	TK..AD Outline dimension
	INSTALLATION
136	Mounting positions designation
137 - 143	Mounting positions
144	Installation methods
	LUBRICANTS
145	Type of lubricants
146	Lubricant fill quantity
147	MAINTENANCE
148	STORAGE
148	NOTICE FOR ORDER
149 - 150	MULFUCTIONS
	ADDENDUM
151 - 152	Change characteristic chart



2. Product picture



TK..Y..



TKF..Y..



TKA..B Y..
TKV..B Y..



TKH..B Y..



TKA.. Y..
TKV.. Y..



TKH..Y..



TKAF.. Y..
TKVF.. Y..



TKHF..Y..



TKAZ.. Y..
TKVZ.. Y..



TKHZ..Y..



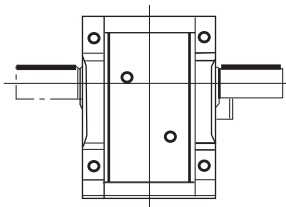
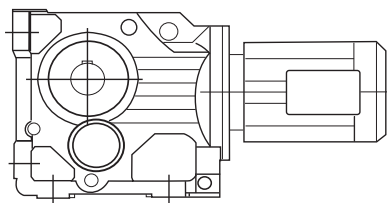
TK..AM (IEC)..



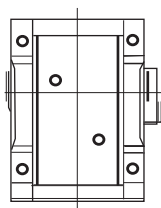
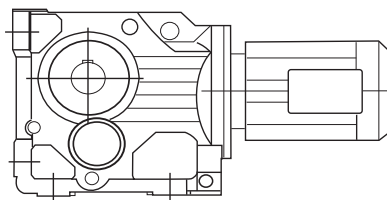
TKF..AD

2.2 Design

The following types of helical-bevel geared motor can be supplied.

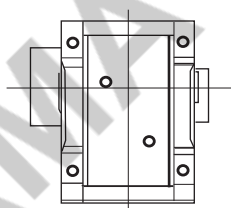
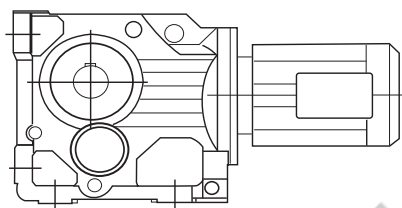


TK.. D..
Foot-mounted helical-bevel geared motor

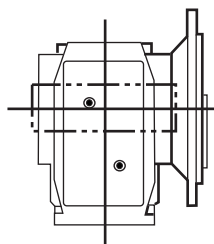
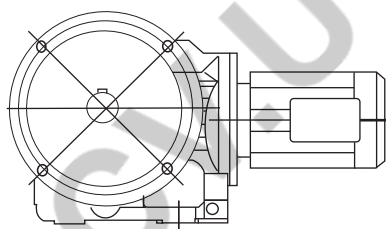


TKA.. BD..
Foot-mounted helical-bevel geared motor
With hollow shaft.

TKV.. BD..
Foot-mounted helical-bevel geared motor
With hollow shaft and splined hollow
shaft to DIN 5480.

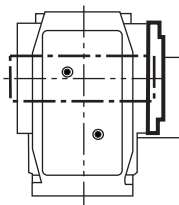
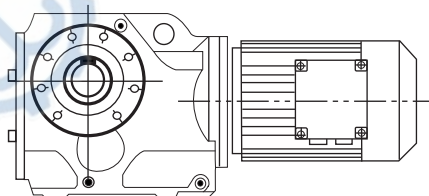


TKH.. BD..
Foot-mounted helical-bevel geared motor
With hollow shaft and shrink disk.



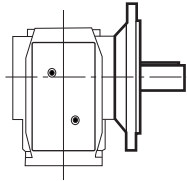
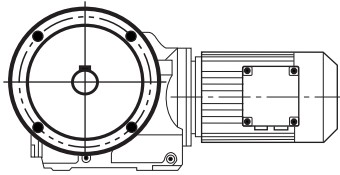
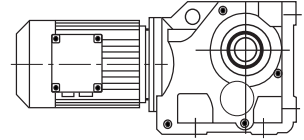
TKAF.. D..
Helical-bevel geared motor in B5
flange-mounted version.

TKVF.. D..
Helical-bevel geared motor in B5
flange-mounted with hollow shaft and
splined hollow shaft to DIN 5480.

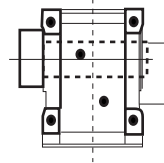
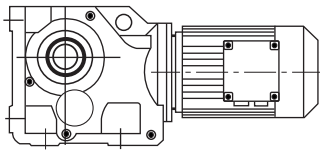


TKAZ.. D..
Helical-bevel geared motor in B14
flange-mounted with hollow shaft.

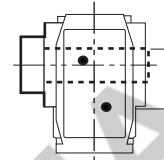
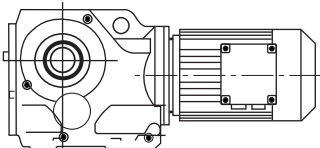
TKVZ.. D..
Helical-bevel geared motor in B14
flange-mounted with hollow shaft and
splined hollow shaft to DIN 5480.



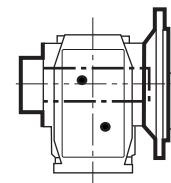
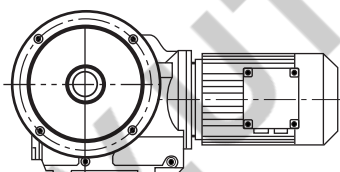
TKF.. D..
Helical-bevel geared motor in B5 flange-mounted



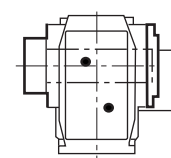
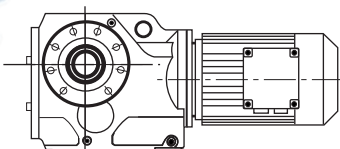
TKH.. BD..
Helical-bevel geared motor with hollow shaft,
and shrink disk



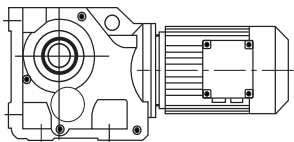
TKH.. D..
Helical-bevel geared motor with hollow shaft,
and shrink disk.



TKHF.. D..
Helical-bevel geared motor in B14 flange-mounted
version with hollow shaft, and shrink disk.



TKHZ.. D..
Helical-bevel geared motor in B14 flange-mounted
version with hollow shaft and shrink disk.



MODEL ILLUMINATE

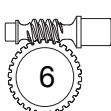
3. Model ILLUMINATE

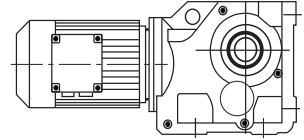
TK A 87 B - Y 180 M 4 / BMG / HF / TF - 21.32 - M6 / 270°

1 2 3 4 5 6 7 8 9 10 11 12 13 14

No.	Comments
1. ☐	TK : code for gear units series ☐
2. ☐	1. no code means foot-mounted ☐ 2. A: Hollow shaft 3. H: Hollow shaft with shrink disk ☐ 4. V: Splined hollow shaft to DIN 5480 ☐ 5. F: B5 flange-mounted ☐ 6. Z: B14 flange-mounted
3. ☐	specification code of gear units 37, 47, ... ☐
4. ☐	1. B: foot-mounted 2. T: torque arm-mounted ☐
5. ☐	1. Y: Motor code 2. AM: IEC input couplings
6. ☐	specification code of motor (high in motor center)
7. ☐	length code of stator core D, K, L , M, ML, N, S
8. ☐	pole number of motor 2, 4, 6, 8 ☐
9. ☐	1. no code means no brake 2. BMG: brake ☐
10. ☐	1. no code means no manual release device 2. HF: manual release device with self-locking function ☐ 3. HR: manual release device with outself-locking function
11. ☐	1. no code means no motor heat-protection device ☐ 2. TF: motor heat-protection device
12. ☐	Transmission ratio of gear units i
13. ☐	M1: Mounting position, default mounting positions M1 not to write out is ok
14. ☐	position diagram for motor terminal box default position 0°(R) not to write out is ok

Examples: ☐ TK57 - Y63M4 - 108.29 ☐
 TKF67 - AM80 - 27.82 ☐
 TKAF87 - Y90S4 / BMG - 115.82





4. RELEVANT PARAMETER

4.1 Power P

$$P_1 = \frac{P_2}{\eta}$$

P_1 [kW]

$$P_{1n} \geq P_1 \cdot fs$$

P_{1n} [kW]

- P_1 Input power
- P_2 Output power
- P_{1n} Rated input motor power
- fs Service factor
- η Transmission efficiency

TK Series helical gear units has 2 stage and the efficiency is about 96%.

4.2 Rotation speed n

n_1 Gear units input speed

n_2 Gear units output speed

If driven by the external gearing, 1400r/min or lower rotation speed is suggested so as to optimize the working conditions and prolong the service life. Higher input rotation speed is permitted, but in this situation, the rated torque M_2 will be reduced.

4.3 Transmission ratio i

$$i = \frac{n_1}{n_2}$$

Usually transmission ratio is decimal fraction with 2 radix point tagged in selection tables.

4.4 Torque M

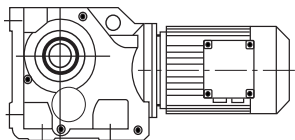
$$M_2 = \frac{9550 \cdot P_1 \cdot \eta}{n_2}$$

M_2 [Nm]

$$M_{2n} \geq M_2 \cdot fs$$

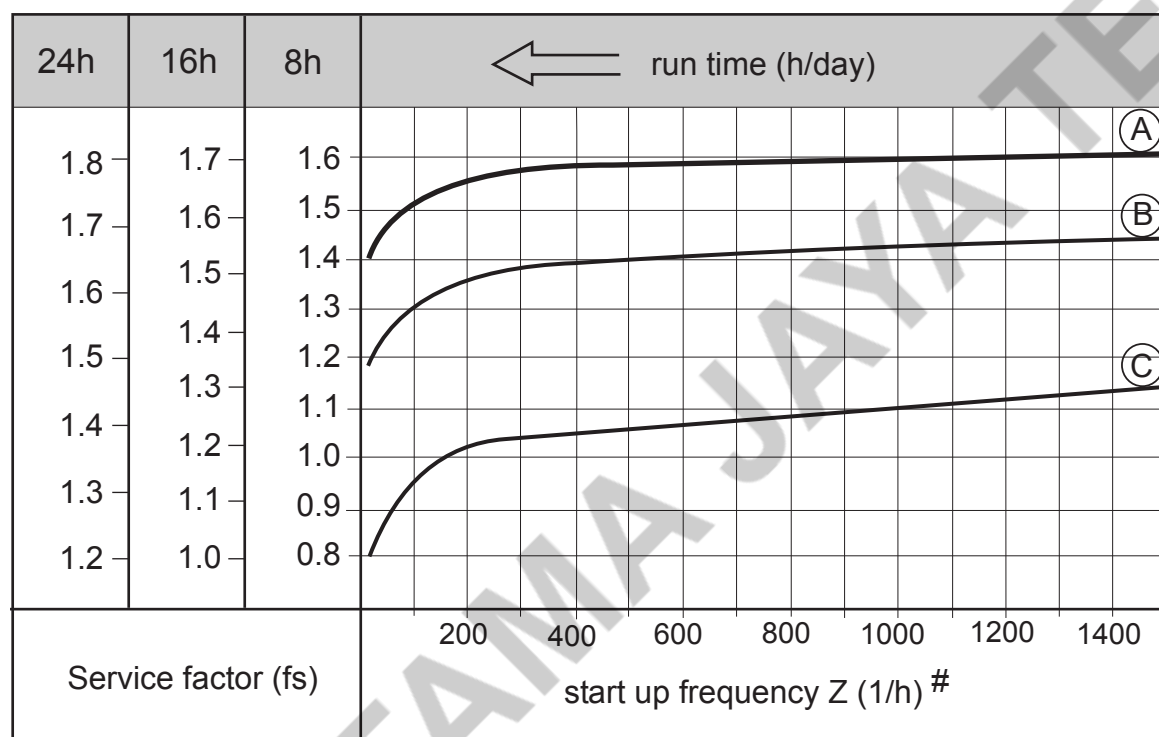
M_{2n} [Nm]

- M_2 Output torque
- M_{2n} Rated output torque
- P_1 Input power
- η Transmission efficiency
- fs Service factor



4.5 Service factor f_s

The effect of the driven machine on the gear unit is taken into account to a sufficient level of accuracy using the service factor f_s . The service factor is determined according to the daily operating time and the starting frequency Z . Three load classifications are considered depending on the mass acceleration factor. You can read off the service factor applicable to your application in following Figure. The service factor selected using this diagram must be less than or equal to the service factor as given in the performance parameter table.



Starting frequency Z : The cycles include all starting and braking procedures as well as change overs from low to high speed.

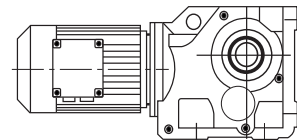
4.5.1 Load classifications

- (A) Uniform, shock load, permitted mass acceleration factor $f_a < 0.2$
 - (B) Moderate, shock load, permitted mass acceleration factor $f_a < 3$
 - (C) Heavy shock load, permitted mass acceleration factor $10 f_a < 10$
- Load classifications see the addendum.

4.5.2 Mass acceleration factor

The mass acceleration factor is calculated as follows:

$$f_a = \frac{J_c}{J_m}$$



- f_a □ Mass acceleration factor
 J_c □ All external mass moments of inertia [kgm²]
 J_m □ Mass moment of inertia on the motor end [kgm²]

If mass acceleration factors $f_a > 10$, please call our Technical Service. □

To keep the service-life of gear units, the use factor f_s selected from the catalogue must be equal or slightly higher than the calculated use factor f_s .

4.6 Radial loads F_r □

When determining the resulting radial loads, the type of transmission elements, mounted on the shaft end must be considered. Various transmission elements are corresponding with following transmission element factors f_z :

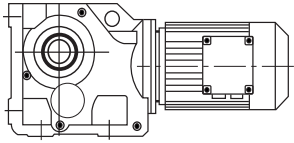
Transmission element	Transmission element factor F_z	Comments
Gears	1.00	> 17 / teeth
	1.15	< 17 / teeth
Chain sprockets	1.00	> 20 / teeth
	1.25	< 20 / teeth
	1.40	< 13 / teeth
Narrow V-belt pulleys	1.75	/ Influence of the tensile force
Flat belt pulleys	2.50	/ Influence of the tensile force
Toothed belt pulleys	2.50	/ Influence of the tensile force

The overhung loads exerted on the motor or gear shaft is then calculated as follows: □

$$F_r = \frac{M \cdot 2000 \cdot f_z}{d_0} \quad [N] \quad \square$$

- F_r □ Resulting radial load [N]
 M □ Torque on the shaft [Nm]
 d_0 □ Mean diameter of the mounted transmission element in [mm]
 f_z □ Transmission element factor □

The basic for determining the permitted radial loads is the computation of the rated service life LH_{10} of the bearing (according to ISO 281). For special operating conditions, the permitted radial loads can be determined with regard to the modified service life L_{na} . The permitted radial loads F_{r2} for the output shafts of foot-mounted gear units with asolid shaft are listed in the selection table. Contact our company in case of other versions.



RELEVANT PARAMETER

The permitted radial loads given in the selection tables must be calculated using the following formula in the event of force application not in the center of shaft end. the smaller of the two values F_{xL} (according to bearing service life) and F_{xW} (according to shaft strength) is the permitted value for the radial load at points x. Note that the calculations apply to $M_{2 \text{ MAX}}$.

$$F_{xL} = Fr_2 \frac{a}{b + x} \quad (\text{N})$$

$$F_{xW} = Fr_2 \frac{c}{f + x} \quad (\text{N})$$

Fr_2 Permitted overhung load ($x = L/2$) for foot-mounted gear units according to the selection tables in (N)

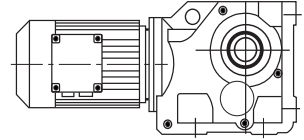
x Distance from the shaft shoulder to the force application points in (mm)

a, b, f Gear units constant for overhung load conversion (mm)

c Gear units constant for overhung load conversion (mm)

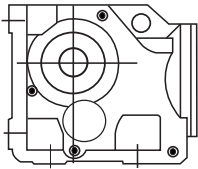


Gear unit type	a [mm]	b [mm]	c [mm]	f [mm]	d [mm]	L [mm]
TK37	123.5	98.5	1.41×10^5	0	25	50
TK47	153.5	123.5	1.78×10^5	0	30	60
TK57	169.7	134.7	6.8×10^5	32	35	70
TK67	181.3	141.3	4.12×10^5	0	40	80
TK77	215.8	165.8	7.69×10^5	0	50	100
TK87	252	192	1.64×10^6	0	60	120
TK97	319	249	2.8×10^6	0	70	140
TK107	373.5	288.5	5.53×10^6	0	90	170
TK127	443.5	338.5	8.31×10^6	0	110	210
TK157	509	404	1.18×10^7	0	120	210
TK167	621.5	496.5	1.88×10^7	0	160	250
TK187	720.5	560.5	3.04×10^7	0	190	320

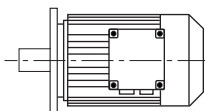


4.7 Selection tables comments

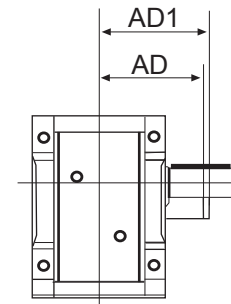
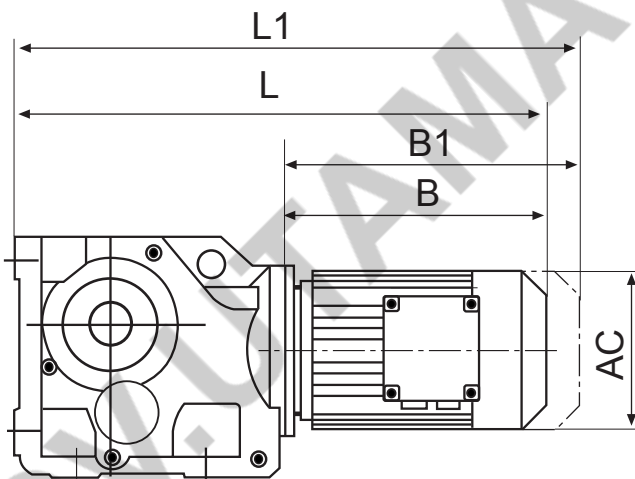
- * Finite gear unit reduction ratio;
- $P_{1n\Box}$ Rated power living motor (kW);
- $n_{2\Box}$ Output speed (r/min);
- $M_{2n\Box}$ Output torque (Nm);
- $M_{2max\Box}$ Max. permissible output torque (Nm);
- $Fr_{2\Box}$ Permissible overhung load output side (N);
- $i\Box$ Gear unit ratio;
- $fs\Box$ Service factor;



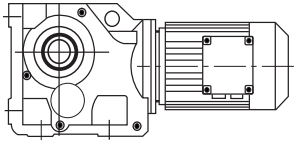
Gear unit type



Motor type



- $L\Box$ Total length of gearmotor;
- $L_{1\Box}$ Total length of gearmotor including brake;
- $B\Box$ Length of motor;
- $B_{1\Box}$ Length of brake motor;
- $AC\Box$ Diameter of motor;
- $AD\Box$ Center of motor shaft to top part of terminal box;
- $AD_{1\Box}$ Center of brake motor shaft to top part of terminal box;



SELECTION EXAMPLE

5. SELECTION EXAMPLE

5.1 Gear motor

Example: Required power 30kW on driven machine, work for 16h/day, moderated shock load, so $f_s = 1.4$, M5 foot-mounted, $n_2 = 85\text{r/min}$

$$i = \frac{n_1}{n_2} = \frac{1400}{85} = 16.47$$

$$P_{1n} \geq P_1 \cdot f_s = \frac{P_2}{\eta} \cdot f_s = \frac{30}{0.94} \times 1.4 = 44.68 \text{ (kW)}$$

Choose type :

TK107 - Y225M4 - 16.75 - M5

5.2 Gear motor

Examples: Recluiured torque 5000Nm on driven machine, work 8h/day uniform load, so $f_s = 1.2$, flange mounted, $n_2 = 4\text{r/min}$, choose TF../TRF..

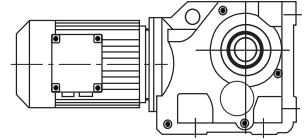
$$i = \frac{n_1}{n_2} = \frac{1400}{4} = 350$$

$$M_{2N} \geq M_2 \cdot f_s = 5000 \times 1.2 = 6000 \text{ (Nm)}$$

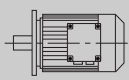
$$P_{1n} \geq P_1 \cdot f_s = \frac{M_2 \cdot n_1}{9550 \cdot \eta \cdot i} \cdot f_s = \frac{5000 \times 1400}{9500 \times 0.94 \times 0.96 \times 350} \times 1.4 = 44.68 \text{ (kW)}$$

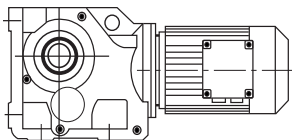
Choose type:

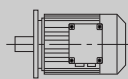
TKF107 / TRF77 - 364



6.2 TK..Y../ Performance parameter

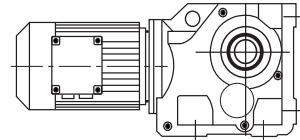
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs		
0.12	0.08	10900	17550	80300	1.20	TK	127 / TRF77 YDA 63S4
	0.09	9900	16006	80700	1.30	TKF	127 / TRF77 YDA 63S4
	0.09	9260	14975	81000	1.40	TKA	127 / TRF77 YDA 63S4
	0.11	7690	12440	81600	1.70	TKAF	127 / TRF77 YDA 63S4
	0.13	6750	10915	81900	1.95		
	0.14	6070	9819	82000	2.1		
	0.16	5190	8443	82300	2.5		
	0.18	4630	7482	82400	2.8		
	0.10	8850	14311	65000	0.90		
	0.11	7550	12211	65000	1.05	TK	107 / TRF77 YDA 63S4
	0.13	6600	10677	65000	1.20	TKF	107 / TRF77 YDA 63S4
	0.14	5890	9524	65000	1.35	TKA	107 / TRF77 YDA 63S4
	0.17	5150	8328	65000	1.55	TKAF	107 / TRF77 YDA 63S4
	0.19	4500	7270	65000	1.80		
	0.22	3710	6184	65000	2.2		
	0.24	3220	5662	65000	2.5		
	0.27	2920	5138	65000	2.7		
	0.32	2680	4359	65000	3.0		
	0.17	5460	8054	39400	0.80		
	0.20	4430	6970	40000	0.95	TK	97 / TRF57 YDA 63S4
	0.23	4000	6027	40000	1.05	TKF	97 / TRF57 YDA 63S4
	0.26	3660	5391	40000	1.20	TKA	97 / TRF57 YDA 63S4
	0.30	3020	4669	40000	1.40	TKAF	97 / TRF57 YDA 63S4
	0.34	2740	4082	40000	1.55		
	0.39	2380	3583	40000	1.80		
	0.44	2100	3108	40000	2.1		
	0.50	1770	2757	40000	2.4		
	0.57	1650	2419	40000	2.6		
	0.65	1430	2123	40000	3.0	TK	97 / TRF57 YDA 63S4
	0.74	1270	1856	40000	3.4	TKF	97 / TRF57 YDA 63S4
	0.85	1050	1625	40000	4.1	TKA	97 / TRF57 YDA 63S4
	0.96	890	1430	40000	4.8	TKAF	97 / TRF57 YDA 63S4
	1.1	870	1261	40000	5.0		
	1.2	755	1102	40000	5.7		
	0.26	3480	5240	26200	0.80		
	0.30	2900	4562	27000	0.95	TK	87 / TRF57 YDA 63S4
	0.34	2680	4037	27300	1.00	TKF	87 / TRF57 YDA 63S4
	0.38	2400	3609	27600	1.15	TKA	87 / TRF57 YDA 63S4
	0.44	2070	3107	28000	1.30	TKAF	87 / TRF57 YDA 63S4
	0.51	1730	2728	28300	1.55		
	0.58	1530	2371	28400	1.75		
	0.66	1430	2088	28500	1.90		
	0.74	1270	1854	28600	2.1	TK	87 / TRF57 YDA 63S4
	0.83	1140	1657	28700	2.4	TKF	87 / TRF57 YDA 63S4
	0.97	970	1415	28800	2.8	TKA	87 / TRF57 YDA 63S4
	1.1	840	1229	28900	3.2	TKAF	87 / TRF57 YDA 63S4
1.3	725	1078	28900	3.7			
1.4	610	951	29000	4.4			
1.7	525	837	29000	5.2			
1.9	455	726	29000	5.9			

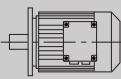


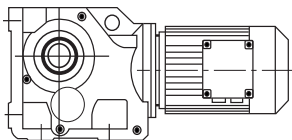
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	f _s			
0.12	0.51	1840	2717	11500	0.85	TK	77 / TRF37	YDA 63S4
	0.58	1530	2370	15500	1.00	TKF	77 / TRF37	YDA 63S4
						TKA	77 / TRF37	YDA 63S4
						TKAF	77 / TRF37	YDA 63S4
	0.67	1440	2050	16100	1.10	TK	77 / TRF37	YDA 63S4
	0.78	1230	1772	17300	1.25	TKF	77 / TRF37	YDA 63S4
	0.91	1050	1514	18100	1.50	TKA	77 / TRF37	YDA 63S4
	0.99	960	1388	18500	1.60	TKAF	77 / TRF37	YDA 63S4
	1.1	840	1218	18900	1.85			
	1.3	740	1053	19200	2.1			
	1.5	645	924	19400	2.4			
	1.7	570	815	19600	2.7			
	1.9	450	709	19800	3.5			
	2.2	395	622	19900	3.9			
	1.0	960	1351	6940	0.85	TK	67 / TRF37	YDA 63S4
	1.2	830	1171	10300	1.00	TKF	67 / TRF37	YDA 63S4
	1.3	725	1034	11100	1.15	TKA	67 / TRF37	YDA 63S4
	1.5	605	903	11900	1.35	TKAF	67 / TRF37	YDA 63S4
	1.7	570	793	12100	1.45			
	2.0	455	697	12600	1.80			
	2.2	400	613	12800	2.0			
	2.6	350	542	13000	2.3			
	2.9	330	471	13000	2.5			
	3.3	270	420	13000	3.0			
	3.8	250	361	13000	3.3			
	4.3	220	323	13000	3.8			
	5.0	181	279	13000	4.5			
	5.6	159	246	13000	5.2			
	6.4	139	217	13000	5.9			
	1.5	605	906	7590	1.00	TK	57 / TRF37	YDA 63S4
	1.7	545	806	8060	1.10	TKF	57 / TRF37	YDA 63S4
	2.0	455	699	8630	1.30	TKA	57 / TRF37	YDA 63S4
	2.2	400	615	8870	1.50	TKAF	57 / TRF37	YDA 63S4
	2.5	350	544	9080	1.70			
	2.9	325	473	9190	1.85			
	3.3	275	421	9390	2.2			
	3.8	250	362	9470	2.4			
	4.3	220	319	9570	2.8			
	4.9	181	280	9690	3.3			
	5.6	160	246	9760	3.8			
	6.4	141	215	9810	4.3			
	7.2	126	192	9850	4.8			
	2.5	380	552	6170	1.05	TK	47 / TRF37	YDA 63S4
	2.8	325	495	6840	1.25	TKF	47 / TRF37	YDA 63S4
	3.2	290	426	7160	1.40	TKA	47 / TRF37	YDA 63S4
	3.7	245	375	7510	1.65	TKAF	47 / TRF37	YDA 63S4
	4.2	225	327	7620	1.75			
	4.8	198	289	7780	2.0			
	4.0	245	346	3540	0.80	TK	37 / TRF17	YDA 63S4
	4.5	205	304	5570	0.95	TKF	37 / TRF17	YDA 63S4
	5.2	189	267	5760	1.05	TKA	37 / TRF17	YDA 63S4
	5.9	163	234	6010	1.20	TKAF	37 / TRF17	YDA 63S4
	6.7	143	205	6180	1.40			
	7.6	124	181	6300	1.60			
	8.6	109	160	6400	1.85			
	10	91	136	6490	2.2			

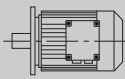
PERFORMANCE PARAMETER

TK..Y..(KW)

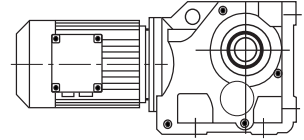


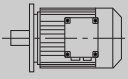
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
0.12	6.2	184	144.79*	13000	4.5	TK	67	YDA 63M6
						TKF	67	YDA 63M6
						TKA	67	YDA 63M6
						TKAF	67	YDA 63M6
	6.2	185	145.14*	9680	3.3	TK	57	YDA 63M6
	7.3	158	123.85	9760	3.8	TKF	57	YDA 63M6
	8.3	138	108.29	9820	4.4	TKA	57	YDA 63M6
	8.8	131	102.88*	9840	4.6	TKAF	57	YDA 63M6
	10	115	90.26*	9880	5.2			
	12	98	76.56*	9930	6.2			
	9.5	121	145.14*	9870	5.0	TK	57	YDA 63S4
	11	103	123.85	9920	5.8	TKF	57	YDA 63S4
	13	90	108.29	9950	6.7	TKA	57	YDA 63S4
	13	85	102.88*	9960	7.0	TKAF	57	YDA 63S4
	15	75	90.26*	9990	8.0			
	6.8	168	131.87*	7930	2.4	TK	47	YDA 63M6
	7.4	155	121.48*	7990	2.6	TKF	47	YDA 63M6
	8.6	133	104.37	8070	3.0	TKA	47	YDA 63M6
						TKAF	47	YDA 63M6
	10	110	131.87*	8140	3.7	TK	47	YDA 63S4
	11	101	121.48*	8170	4.0	TKF	47	YDA 63S4
						TKA	47	YDA 63S4
						TKAF	47	YDA 63S4
	8.5	136	106.38	6230	1.50	TK	37	YDA 63M6
	9.2	125	97.81	6300	1.60	TKF	37	YDA 63M6
	11	107	83.69	6410	1.90	TKA	37	YDA 63M6
	12	92	72.54	6480	2.2	TKAF	37	YDA 63M6
	13	88	106.38	6500	2.3	TK	37	YDA 63S4
	14	81	97.81	6530	2.5	TKF	37	YDA 63S4
	16	70	83.69	6570	2.9	TKA	37	YDA 63S4
	19	60	72.54	6600	3.3	TKAF	37	YDA 63S4
	20	56	67.80	6610	3.6			
	24	49	58.60	6430	4.1			
	28	41	49.79	6130	4.8			
	31	37	44.46	5930	5.4			
	36	32	37.97	5660	6.4			
	39	30	35.57	5550	6.8			
	46	25	29.96	5270	8.0			
	48	24	28.83	5210	8.4			
	55	21	24.99	4980	9.6			
	59	19	23.36	4880	10			
	68	17	20.19	4660	11			
	80	14	17.15	4430	13			
	90	13	15.31	4280	14			
	105	11	13.08	4070	15			
	114	10	12.14	3970	16			
0.18	0.09	15800	14975	74400	0.80	TK	127 / TRF77	YDA 63M4
	0.11	13100	12440	79100	1.00	TKF	127 / TRF77	YDA 63M4
	0.12	11500	10915	80000	1.15	TKA	127 / TRF77	YDA 63M4
	0.13	10300	9819	80500	1.25	TKAF	127 / TRF77	YDA 63M4
	0.16	8870	8443	81100	1.45			
	0.18	7880	7482	81500	1.65			
	0.20	6920	6565	81800	1.90			
	0.23	5890	5804	82100	2.2			

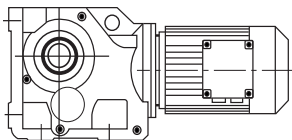


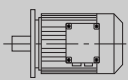
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	f _s			
0.18	0.26	5210	5027	82300	2.5	TK	127 / TRF77	YDA 63M4
	0.30	4490	4423	82400	2.9	TKF	127 / TRF77	YDA 63M4
	0.34	3910	3889	82500	3.3	TKA	127 / TRF77	YDA 63M4
	0.40	3250	3311	82600	4.0	TKAF	127 / TRF77	YDA 63M4
	0.16	8780	8328	65000	0.90	TK	107 / TRF77	YDA 63M4
	0.18	7660	7270	65000	1.05	TKF	107 / TRF77	YDA 63M4
	0.21	6410	6184	65000	1.25	TKA	107 / TRF77	YDA 63M4
	0.23	5690	5662	65000	1.40	TKAF	107 / TRF77	YDA 63M4
	0.26	5160	5138	65000	1.55			
	0.30	4580	4359	65000	1.75			
	0.35	4010	3810	65000	2.0			
	0.39	3410	3358	65000	2.4			
	0.44	3090	2977	65000	2.6			
	0.51	2690	2599	65000	3.0			
	0.58	2320	2286	65000	3.5			
	0.28	5060	4669	39800	0.85	TK	97 / TRF57	YDA 63M4
	0.32	4540	4082	40000	0.95	TKF	97 / TRF57	YDA 63M4
	0.37	3940	3583	40000	1.10	TKA	97 / TRF57	YDA 63M4
	0.42	3450	3108	40000	1.25	TKAF	97 / TRF57	YDA 63M4
	0.48	2990	2757	40000	1.45			
	0.55	2720	2419	40000	1.60	TK	97 / TRF57	YDA 63M4
	0.62	2360	2123	40000	1.80	TKF	97 / TRF57	YDA 63M4
	0.71	2090	1856	40000	2.1	TKA	97 / TRF57	YDA 63M4
	0.81	1760	1625	40000	2.4	TKAF	97 / TRF57	YDA 63M4
	0.92	1530	1430	40000	2.8			
	1.1	1420	1261	40000	3.0			
	1.2	1240	1102	40000	3.5			
	1.4	1090	957	40000	4.0			
	1.5	970	855	40000	4.4			
	1.8	775	743	40000	5.6			
	2.0	690	652	40000	6.2			
	0.42	3440	3107	26200	0.80	TK	87 / TRF57	YDA 63M4
	0.48	2920	2728	27000	0.90	TKF	87 / TRF57	YDA 63M4
	0.56	2570	2371	27500	1.05	TKA	87 / TRF57	YDA 63M4
						TKAF	87 / TRF57	YDA 63M4
	0.63	2350	2088	27700	1.15	TK	87 / TRF57	YDA 63M4
	0.71	2090	1854	28000	1.30	TKF	87 / TRF57	YDA 63M4
	0.80	1870	1657	28200	1.45	TKA	87 / TRF57	YDA 63M4
	0.93	1590	1415	28400	1.70	TKAF	87 / TRF57	YDA 63M4
	1.1	1380	1229	28600	1.95			
	1.2	1200	1078	28700	2.3			
	1.4	1030	951	28800	2.6			
	1.6	890	837	28800	3.0			
	1.8	775	726	28900	3.5			
	0.87	1720	1514	14100	0.90	TK	77 / TRF37	YDA 63M4
	0.95	1570	1388	15200	1.00	TKF	77 / TRF37	YDA 63M4
	1.1	1380	1218	16500	1.10	TKA	77 / TRF37	YDA 63M4
	1.2	1200	1053	17400	1.30	TKAF	77 / TRF37	YDA 63M4
	1.4	1050	924	18100	1.45			
	1.6	930	815	18600	1.65			
	1.9	760	709	19100	2.0			
	2.1	670	622	19300	2.3			
	2.4	600	552	19500	2.6			
	2.7	530	485	19600	2.9			
	3.1	465	428	19800	3.3			
	3.6	410	367	19800	3.8			

PERFORMANCE PARAMETER

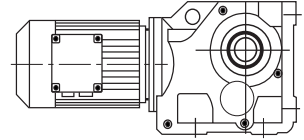


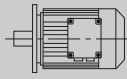
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs		
0.18	1.7	930	793	9240	0.90	TK 67 / TRF37	YDA 63M4
	1.9	765	697	10800	1.05	TKF 67 / TRF37	YDA 63M4
	2.1	670	613	11500	1.20	TKA 67 / TRF37	YDA 63M4
	2.4	590	542	12000	1.40	TKAF 67 / TRF37	YDA 63M4
	2.8	540	471	12200	1.50		
	3.1	455	420	12600	1.80		
	3.6	410	361	12800	2.0		
	4.1	360	323	12900	2.3		
	4.7	305	279	13000	2.7		
	2.4	590	544	7690	1.00	TK 57 / TRF37	YDA 63M4
	2.8	535	473	8150	1.10	TKF 57 / TRF37	YDA 63M4
	3.1	460	421	8620	1.30	TKA 57 / TRF37	YDA 63M4
	3.6	410	362	8840	1.45	TKAF 57 / TRF37	YDA 63M4
	4.1	360	319	9050	1.65		
	4.7	305	280	9270	1.95		
	5.4	270	246	9400	2.2		
	6.1	235	215	9510	2.5		
	6.9	210	192	9600	2.9		
	7.9	182	166	9690	3.3		
	3.5	410	375	5600	1.00	TK 47 / TRF37	YDA 63M4
	4.0	370	327	6320	1.10	TKF 47 / TRF37	YDA 63M4
	4.6	325	289	6810	1.20	TKA 47 / TRF37	YDA 63M4
	5.2	280	256	7240	1.45	TKAF 47 / TRF37	YDA 63M4
	5.9	250	225	7450	1.60		
	6.7	215	198	7680	1.85		
	7.7	188	171	7840	2.1		
	8.6	168	153	7930	2.4		
	10	147	131	8020	2.7		
	6.4	235	205	4860	0.85	TK 37 / TRF17	YDA 63M4
	7.3	205	181	5590	1.00	TKF 37 / TRF17	YDA 63M4
	8.2	180	160	5860	1.10	TKA 37 / TRF17	YDA 63M4
	9.7	151	136	6110	1.35	TKAF 37 / TRF17	YDA 63M4
	10	145	127	6160	1.40		
	6.0	285	144.79*	13000	2.9	TK 67	YDA 63L6
	7.0	245	123.54	13000	3.4	TKF 67	YDA 63L6
	8.1	215	108.03	13000	3.8	TKA 67	YDA 63L6
	8.5	205	102.62	13000	4.0	TKAF 67	YDA 63L6
	9.1	189	144.79*	13000	4.4	TK 67	YDA 63M4
	11	161	123.54	13000	5.1	TKF 67	YDA 63M4
	12	141	108.03	13000	5.8	TKA 67	YDA 63M4
						TKAF 67	YDA 63M4
	6.0	285	145.14*	9340	2.1	TK 57	YDA 63L6
	7.0	245	123.85	9480	2.5	TKF 57	YDA 63L6
	8.0	215	108.29	9590	2.8	TKA 57	YDA 63L6
	8.5	205	102.88*	9620	3.0	TKAF 57	YDA 63L6
	9.6	178	90.26*	9700	3.4		
	9.1	189	145.14*	9670	3.2	TK 57	YDA 63M4
	11	161	123.85	9750	3.7	TKF 57	YDA 63M4
	12	141	108.29	9810	4.3	TKA 57	YDA 63M4
	13	134	102.88*	9830	4.5	TKAF 57	YDA 63M4
	15	118	90.26*	9880	5.1		
	17	100	76.56*	9920	6.0		
	6.6	260	131.87*	7380	1.55	TK 47	YDA 63L6
	7.2	240	121.48*	7530	1.65	TKF 47	YDA 63L6
	8.3	205	104.37	7740	1.95	TKA 47	YDA 63L6
	9.6	180	90.86	7880	2.2	TKAF 47	YDA 63L6

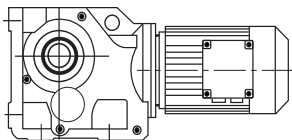


P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs		
0.18	10	172	131.87*	7910	2.3	TK 47	YDA 63M4
	11	158	121.48*	7970	2.5	TKF 47	YDA 63M4
	13	136	104.37	8060	2.9	TKA 47	YDA 63M4
	15	118	90.86	8120	3.4	TKAF 47	YDA 63M4
	16	111	85.12*	8140	3.6		
	8.2	210	106.38	5520	0.95	TK 37	YDA 63L6
	8.9	193	97.81	5710	1.05	TKF 37	YDA 63L6
	10	165	83.69	5990	1.20	TKA 37	YDA 63L6
	12	143	72.54	6170	1.40	TKAF 37	YDA 63L6
	12	139	106.38	6210	1.45	TK 37	YDA 63M4
	14	127	97.81	6280	1.55	TKF 37	YDA 63M4
	16	109	83.69	6400	1.85	TKA 37	YDA 63M4
	18	95	72.54	6470	2.1	TKAF 37	YDA 63M4
	19	88	67.80	6500	2.3		
	23	76	58.60	6280	2.6		
	27	65	49.79	6010	3.1		
	30	58	44.46	5830	3.5		
	35	49	37.97	5580	4.1		
	37	46	35.57	5480	4.3		
	44	39	29.96	5220	5.1		
	46	38	28.83	5160	5.3		
	53	33	24.99	4950	6.2		
	57	30	23.36	4850	6.4		
	65	26	20.19	4650	7.0		
	77	22	17.15	4430	8.1		
	86	20	15.31	4280	8.8		
	101	17	13.08	4080	9.7		
	109	16	12.14	3980	10		
	126	14	10.49	3810	12		
	148	12	8.91	3620	14		
	166	10	7.96	3490	15		
0.25	0.13	15200	9819	75600	0.85	TK 127 / TRF77	YDA 63L4
	0.15	13000	8443	79200	1.00	TKF 127 / TRF77	YDA 63L4
	0.17	11600	7482	79900	1.10	TKA 127 / TRF77	YDA 63L4
	0.20	10200	6565	80600	1.30	TKAF 127 / TRF77	YDA 63L4
	0.22	8750	5804	81200	1.50		
	0.26	7690	5027	81600	1.70		
	0.29	6670	4423	81900	1.95		
	0.33	5830	3889	82100	2.2		
	0.39	4880	3311	82300	2.7		
	0.21	9460	6184	65000	0.85	TK 107 / TRF77	YDA 63L4
	0.23	8480	5662	65000	0.95	TKF 107 / TRF77	YDA 63L4
	0.25	7700	5138	65000	1.05	TKA 107 / TRF77	YDA 63L4
	0.30	6730	4359	65000	1.20	TKAF 107 / TRF77	YDA 63L4
	0.34	5880	3810	65000	1.35		
	0.39	5060	3358	65000	1.60		
	0.44	4550	2977	65000	1.75		
	0.50	3980	2599	65000	2.0		
	0.57	3450	2286	65000	2.3		
	0.67	2920	1939	65000	2.7		
	0.76	2680	1713	65000	3.0	TK 107 / TRF77	YDA 63L4
	0.84	2430	1554	65000	3.3	TKF 107 / TRF77	YDA 63L4
	0.97	2090	1336	65000	3.8	TKA 107 / TRF77	YDA 63L4
						TKAF 107 / TRF77	YDA 63L4

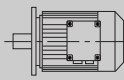
PERFORMANCE PARAMETER



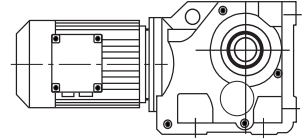
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
0.25	0.42	4990	3108	39900	0.85	TK	97 / TRF57	YDA 63L4
	0.47	4360	2757	40000	1.00	TKF	97 / TRF57	YDA 63L4
						TKA	97 / TRF57	YDA 63L4
						TKAF	97 / TRF57	YDA 63L4
	0.54	3930	2419	40000	1.10	TK	97 / TRF57	YDA 63L4
	0.61	3420	2123	40000	1.25	TKF	97 / TRF57	YDA 63L4
	0.70	3020	1856	40000	1.40	TKA	97 / TRF57	YDA 63L4
	0.80	2580	1625	40000	1.65	TKAF	97 / TRF57	YDA 63L4
	0.91	2240	1430	40000	1.90			
	1.0	2050	1261	40000	2.1			
	1.2	1790	1102	40000	2.4			
	1.4	1570	957	40000	2.7			
	1.5	1400	855	40000	3.1			
	0.62	3390	2088	26300	0.80	TK	87 / TRF57	YDA 63L4
	0.70	3010	1854	26900	0.90	TKF	87 / TRF57	YDA 63L4
	0.78	2700	1657	27300	1.00	TKA	87 / TRF57	YDA 63L4
	0.92	2300	1415	27800	1.15	TKAF	87 / TRF57	YDA 63L4
	1.1	2000	1229	28100	1.35			
	1.2	1740	1078	28300	1.55			
	1.4	1510	951	28500	1.80			
	1.6	1310	837	28600	2.1			
	1.8	1140	726	28700	2.4			
	2.0	1010	638	28800	2.7			
	1.2	1730	1053	14000	0.90	TK	77 / TRF37	YDA 63L4
	1.4	1520	924	15600	1.00	TKF	77 / TRF37	YDA 63L4
	1.6	1340	815	16700	1.15	TKA	77 / TRF37	YDA 63L4
	1.8	1120	709	17800	1.40	TKAF	77 / TRF37	YDA 63L4
	2.1	980	622	18400	1.60			
	2.4	880	552	18700	1.75			
	2.7	770	485	19100	2.0			
	3.0	680	428	19300	2.3			
	3.5	595	367	19500	2.6			
	4.0	525	328	19600	2.9			
	4.5	470	290	19700	3.3			
	5.2	400	252	19900	3.9			
	5.9	355	221	19900	4.4			
	6.7	310	195	20000	5.0			
	7.5	275	175	20000	5.7			
	2.1	980	613	5690	0.85	TK	67 / TRF37	YDA 63L4
	2.4	860	542	9920	0.95	TKF	67 / TRF37	YDA 63L4
	2.8	775	471	10700	1.05	TKA	67 / TRF37	YDA 63L4
	3.1	665	420	11500	1.25	TKAF	67 / TRF37	YDA 63L4
	3.6	590	361	11900	1.40			
	4.0	525	323	12300	1.55			
	4.7	445	279	12700	1.85			
	5.3	390	246	12800	2.1			
	6.0	345	217	13000	2.4			
	3.1	670	421	4200	0.90	TK	57 / TRF37	YDA 63L4
	3.6	590	362	7690	1.00	TKF	57 / TRF37	YDA 63L4
	4.1	520	319	8260	1.15	TKA	57 / TRF37	YDA 63L4
	4.7	445	280	8680	1.35	TKAF	57 / TRF37	YDA 63L4
	5.3	390	246	8920	1.55			
	6.0	345	215	9110	1.75			
	6.8	305	192	9260	1.95			
	7.8	265	166	9410	2.3			

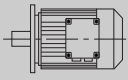


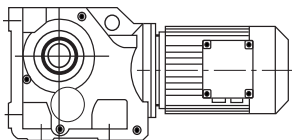
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	f _s			
0.25	9.0	230	145	9530	2.6	TK	57 / TRF37	YDA 63L4
	10	210	129	9600	2.9	TKF	57 / TRF37	YDA 63L4
	12	178	111	9700	3.4	TKA	57 / TRF37	YDA 63L4
	13	156	97	9770	3.8	TKAF	57 / TRF37	YDA 63L4
	4.4	540	154.02	19600	2.9	TK	77	YDA 80N8
	5.0	475	135.28	19700	3.3	TKF	77	YDA 80N8
	5.3	450	128.52	19800	3.4	TKA	77	YDA 80N8
	6.0	400	113.56	19900	3.9	TKAF	77	YDA 80N8
	4.6	520	192.18	19700	2.8	TK	77	YDA 71D6
	4.9	485	179.37	19700	3.0	TKF	77	YDA 71D6
	5.7	420	154.02	19800	3.7	TKA	77	YDA 71D6
	6.5	365	135.28	19900	4.2	TKAF	77	YDA 71D6
	5.5	435	123.54	12700	1.90	TK	67	YDA 80N8
	6.3	380	108.03	12900	2.2	TKF	67	YDA 80N8
	6.6	360	102.62	12900	2.3	TKA	67	YDA 80N8
	7.5	315	90.04	13000	2.6	TKAF	67	YDA 80N8
	6.1	395	144.79*	12800	2.1	TK	67	YDA 71D6
	7.1	335	123.54	13000	2.5	TKF	67	YDA 71D6
	8.2	295	108.03	13000	2.8	TKA	67	YDA 71D6
	8.6	280	102.62	13000	3.0	TKAF	67	YDA 71D6
	9.0	265	144.79*	13000	3.1	TK	67	YDA 63L4
	11	225	123.54	13000	3.6	TKF	67	YDA 63L4
	12	198	108.03	13000	4.1	TKA	67	YDA 63L4
	13	189	102.62	13000	4.4	TKAF	67	YDA 63L4
	6.1	395	145.14*	8910	1.50	TK	57	YDA 71D6
	7.1	335	123.85	9150	1.80	TKF	57	YDA 71D6
	8.1	295	108.29	9310	2.0	TKA	57	YDA 71D6
	8.6	280	102.88*	9360	2.2	TKAF	57	YDA 71D6
	9.8	245	90.26*	9480	2.5			
	11	210	76.56*	9610	2.9			
	9.0	265	145.14*	9410	2.3	TK	57	YDA 63L4
	11	225	123.85	9540	2.6	TKF	57	YDA 63L4
	12	199	108.29	9640	3.0	TKA	57	YDA 63L4
	13	189	102.88*	9670	3.2	TKAF	57	YDA 63L4
	14	166	90.26*	9740	3.6			
	17	141	76.56*	9810	4.3			
	6.7	360	131.87*	6470	1.10	TK	47	YDA 71D6
	7.2	330	121.48*	6780	1.20	TKF	47	YDA 71D6
	8.4	285	104.37	7210	1.40	TKA	47	YDA 71D6
	9.7	245	90.86	7480	1.60	TKAF	47	YDA 71D6
	10	230	85.12*	7590	1.75			
	9.9	240	131.87*	7510	1.65	TK	47	YDA 63L4
	11	225	121.48*	7640	1.80	TKF	47	YDA 63L4
	12	192	104.37	7820	2.1	TKA	47	YDA 63L4
	14	167	90.86	7930	2.4	TKAF	47	YDA 63L4
	15	156	85.12*	7980	2.6			
	11	225	83.69	5300	0.90	TK	37	YDA 71D6
	12	197	72.54	5680	1.00	TKF	37	YDA 71D6
13	184	67.80	5810	1.10	TKA	37	YDA 71D6	
15	159	58.60	6050	1.25	TKAF	37	YDA 71D6	
18	135	49.79	6230	1.50				
12	195	106.38	5690	1.00	TK	37	YDA 63L4	
13	180	97.81	5860	1.10	TKF	37	YDA 63L4	
16	154	83.69	6090	1.30	TKA	37	YDA 63L4	
18	133	72.54	6250	1.50	TKAF	37	YDA 63L4	
19	125	67.80	6230	1.60				

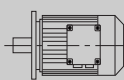
PERFORMANCE PARAMETER



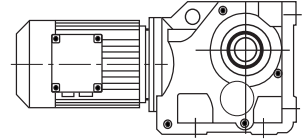
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
0.25	22	108	58.60	6030	1.85	TK	37	YDA 63L4
	26	91	49.79	5810	2.2	TKF	37	YDA 63L4
	29	82	44.46	5650	2.5	TKA	37	YDA 63L4
	34	70	37.97	5430	2.9	TKAF	37	YDA 63L4
	37	65	35.57	5340	3.1			
	43	55	29.96	5100	3.6			
	45	53	28.83	5050	3.8			
	52	46	24.99	4860	4.4			
	56	43	23.36	4770	4.6			
	64	37	20.19	4580	5.0			
	76	32	17.15	4370	5.7			
	85	28	15.31	4230	6.2			
	99	24	13.08	4030	6.9			
	107	22	12.14	3940	7.2			
	124	19	10.49	3780	8.3			
	146	16	8.91	3590	9.8			
	163	15	7.96	3470	11			
	191	13	6.80	3310	12			
	204	12	6.37	3240	12			
0.37	0.18	16600	7482	72700	0.80	TK	127 / TRF77	YDA 71D4
	0.21	14500	6565	76900	0.90	TKF	127 / TRF77	YDA 71D4
	0.24	12600	5804	79400	1.05	TKA	127 / TRF77	YDA 71D4
	0.27	11000	5027	80200	1.20	TKAF	127 / TRF77	YDA 71D4
	0.31	9610	4423	80800	1.35			
	0.35	8420	3889	81300	1.55			
	0.42	7080	3311	81800	1.85			
	0.72	4280	1926	82400	3.0	TK	127 / TRF77	YDA 71D4
	0.79	3900	1757	82500	3.3	TKF	127 / TRF77	YDA 71D4
	0.90	3390	1541	82600	3.8	TKA	127 / TRF77	YDA 71D4
						TKAF	127 / TRF77	YDA 71D4
	0.36	8420	3810	65000	0.95	TK	107 / TRF77	YDA 71D4
	0.41	7300	3358	65000	1.10	TKF	107 / TRF77	YDA 71D4
	0.46	6540	2977	65000	1.20	TKA	107 / TRF77	YDA 71D4
	0.53	5710	2599	65000	1.40	TKAF	107 / TRF77	YDA 71D4
	0.60	4970	2286	65000	1.60			
	0.71	4210	1939	65000	1.90			
	0.81	3830	1713	65000	2.1	TK	107 / TRF77	YDA 71D4
	0.89	3480	1554	65000	2.3	TKF	107 / TRF77	YDA 71D4
	1.0	2990	1336	65000	2.7	TKA	107 / TRF77	YDA 71D4
	1.2	2610	1166	65000	3.1	TKAF	107 / TRF77	YDA 71D4
	0.65	4860	2123	40000	0.90	TK	97 / TRF57	YDA 71D4
	0.74	4270	1856	40000	1.00	TKF	97 / TRF57	YDA 71D4
	0.85	3670	1625	40000	1.15	TKA	97 / TRF57	YDA 71D4
	0.96	3200	1430	40000	1.35	TKAF	97 / TRF57	YDA 71D4
	1.1	2900	1261	40000	1.50			
	1.2	2540	1102	40000	1.70			
	1.4	2220	957	40000	1.95			
	1.6	1990	855	40000	2.2			
	1.9	1640	743	40000	2.6			
	2.1	1450	652	40000	3.0			
	2.4	1310	573	40000	3.3			
	0.97	3250	1415	26500	0.85	TK	87 / TRF57	YDA 71D4
	1.1	2820	1229	27100	0.95	TKF	87 / TRF57	YDA 71D4
	1.3	2470	1078	27600	1.10	TKA	87 / TRF57	YDA 71D4
	1.4	2150	951	27900	1.25	TKAF	87 / TRF57	YDA 71D4
	1.7	1880	837	28200	1.45			

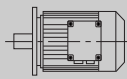


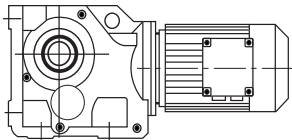
PERFORMANCE PARAMETER

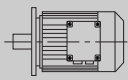
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	f _s			
0.37	1.9	1630	726	28400	1.65	TK	87 / TRF57	YDA 71D4
	2.2	1440	638	28500	1.85	TKF	87 / TRF57	YDA 71D4
	2.5	1260	562	28600	2.2	TKA	87 / TRF57	YDA 71D4
	2.9	1060	474	28800	2.6	TKAF	87 / TRF57	YDA 71D4
	3.2	950	426	28800	2.8			
	3.7	830	373	28900	3.2			
	1.7	1890	815	7450	0.80	TK	77 / TRF37	YDA 71D4
	1.9	1590	709	15100	0.95	TKF	77 / TRF37	YDA 71D4
	2.2	1400	622	16400	1.10	TKA	77 / TRF37	YDA 71D4
	2.5	1250	552	17200	1.25	TKAF	77 / TRF37	YDA 71D4
	2.9	1100	485	17900	1.40			
	3.2	970	428	18400	1.60			
	3.8	840	367	18900	1.85			
	4.2	750	328	19100	2.1			
	4.8	665	290	19400	2.3			
	5.5	570	252	19600	2.7			
	6.2	500	221	19700	3.1			
	7.1	445	195	19800	3.5			
	7.9	390	175	19900	4.0			
	9.0	345	154	19900	4.5			
	3.3	950	420	8130	0.85	TK	67 / TRF37	YDA 71D4
	3.8	840	361	10200	1.00	TKF	67 / TRF37	YDA 71D4
	4.3	745	323	10900	1.10	TKA	67 / TRF37	YDA 71D4
	5.0	630	279	11700	1.30	TKAF	67 / TRF37	YDA 71D4
	5.6	555	246	12100	1.50			
	6.4	495	217	12400	1.65			
	7.2	435	191	12700	1.90			
	8.3	375	166	12900	2.2			
	9.6	330	144	13000	2.5			
	11	280	122	13000	2.9			
	4.9	635	280	7350	0.95	TK	57 / TRF37	YDA 71D4
	5.6	555	246	7980	1.10	TKF	57 / TRF37	YDA 71D4
	6.4	490	215	8460	1.20	TKA	57 / TRF37	YDA 71D4
	7.2	435	192	8720	1.40	TKAF	57 / TRF37	YDA 71D4
	8.3	380	166	8980	1.60			
	9.6	330	145	9170	1.80			
	11	300	129	9290	2.0			
	12	255	111	9460	2.4			
	14	225	97	9560	2.7			
	3.9	910	174.19	28800	3.0	TK	87	YDA 90S8
	4.1	850	164.34*	28900	3.2	TKF	87	YDA 90S8
	4.6	765	147.32*	28900	3.5	TKA	87	YDA 90S8
						TKAF	87	YDA 90S8
	4.6	775	197.37	28900	3.5	TK	87	YDA 80K6
	5.2	685	174.19	28900	4.0	TKF	87	YDA 80K6
						TKA	87	YDA 80K6
						TKAF	87	YDA 80K6
	5.0	705	135.28	19300	2.2	TK	77	YDA 90S8
	5.3	670	128.52	19300	2.3	TKF	77	YDA 90S8
	6.0	590	113.56	19500	2.6	TKA	77	YDA 90S8
	7.0	505	97.05	19700	3.1	TKAF	77	YDA 90S8
	5.8	605	154.02	19500	2.6	TK	77	YDA 80K6
	6.7	530	135.28	19600	2.9	TKF	77	YDA 80K6
	7.0	505	128.52	19700	3.1	TKA	77	YDA 80K6
	7.9	445	113.56	19800	3.5	TKAF	77	YDA 80K6

PERFORMANCE PARAMETER

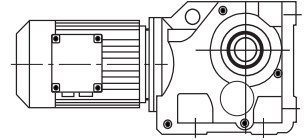


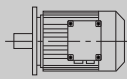
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
0.37	7.2	490	192.18	19700	3.0	TK	77	YDA 71D4
	7.7	460	179.37	19800	3.2	TKF	77	YDA 71D4
	9.0	395	154.02	19900	3.9	TKA	77	YDA 71D4
						TKAF	77	YDA 71D4
	6.3	560	108.03	12100	1.45	TK	67	YDA 90S8
	6.6	535	102.62	12300	1.55	TKF	67	YDA 90S8
	7.5	470	90.04	12600	1.75	TKA	67	YDA 90S8
						TKAF	67	YDA 90S8
	7.3	485	123.54	12500	1.70	TK	67	YDA 80K6
	8.3	425	108.03	12700	1.95	TKF	67	YDA 80K6
	8.8	405	102.62	12800	2.0	TKA	67	YDA 80K6
	10	355	90.04	13000	2.3	TKAF	67	YDA 80K6
	9.5	370	144.79*	12900	2.2	TK	67	YDA 71D4
	11	315	123.54	13000	2.6	TKF	67	YDA 71D4
	13	275	108.03	13000	3.0	TKA	67	YDA 71D4
	15	230	90.04	13000	3.6	TKAF	67	YDA 71D4
	18	196	76.37	13000	4.2			
	7.3	485	123.85	8490	1.25	TK	57	YDA 80K6
	8.3	425	108.29	8770	1.40	TKF	57	YDA 80K6
	8.8	405	102.88*	8870	1.50	TKA	57	YDA 80K6
	10	355	90.26*	9070	1.70	TKAF	57	YDA 80K6
	12	300	76.56*	9280	2.0			
	13	270	69.12	9390	2.2			
	9.5	370	145.14*	9000	1.60	TK	57	YDA 71D4
	11	315	123.85	9220	1.90	TKF	57	YDA 71D4
	13	275	108.29	9370	2.2	TKA	57	YDA 71D4
	13	265	102.88*	9420	2.3	TKAF	57	YDA 71D4
	15	230	90.26*	9530	2.6			
	18	196	76.56*	9650	3.1			
	20	177	69.12	9700	3.4			
	8.6	410	104.37	5490	1.00	TK	47	YDA 80K6
	9.9	355	90.86	6480	1.10	TKF	47	YDA 80K6
	11	335	85.12*	6730	1.20	TKA	47	YDA 80K6
	12	295	75.20*	7100	1.35	TKAF	47	YDA 80K6
	10	340	131.87*	6690	1.20	TK	47	YDA 71D4
	11	310	121.48*	6960	1.30	TKF	47	YDA 71D4
	13	265	104.37	7330	1.50	TKA	47	YDA 71D4
						TKAF	47	YDA 71D4
	15	235	90.86	7580	1.70	TK	47	YDA 71D4
	16	220	85.12*	7670	1.85	TKF	47	YDA 71D4
	18	193	75.20*	7810	2.1	TKA	47	YDA 71D4
	20	179	69.84	7880	2.2	TKAF	47	YDA 71D4
	22	162	63.30*	7960	2.5			
	14	250	97.81	2520	0.80	TK	37	YDA 71D4
	16	215	83.69	5470	0.95	TKF	37	YDA 71D4
	19	186	72.54	5690	1.10	TKA	37	YDA 71D4
	20	174	67.80	5630	1.15	TKAF	37	YDA 71D4
	24	150	58.60	5510	1.35			
	28	128	49.79	5350	1.55			
	31	114	44.46	5230	1.75			
	36	97	37.97	5060	2.1			
	39	91	35.57	4990	2.2			
	46	77	29.96	4800	2.6			
	48	74	28.83	4750	2.7			
	55	64	24.99	4590	3.1			
	59	60	23.36	4510	3.3			

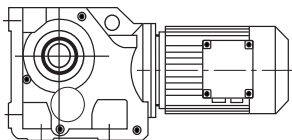


P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	f _s			
0.37	68	52	20.19	4350	3.6	TK	37	YDA 71D4
	80	44	17.15	4160	4.1	TKF	37	YDA 71D4
	90	39	15.31	4040	4.5	TKA	37	YDA 71D4
	105	34	13.08	3860	4.9	TKAF	37	YDA 71D4
	114	31	12.14	3780	5.1			
	132	27	10.49	3630	6.0			
	155	23	8.91	3460	7.0			
	173	20	7.96	3350	7.6			
	203	17	6.80	3190	8.6			
	217	16	6.37	3130	8.9			
257	14	5.36	2970	10				
0.55	0.08	55000	16978	190000	0.90	TK	187 / TRF97	YDA 80K4
	0.10	46200	14272	190000	1.10	TKH	187 / TRF97	YDA 80K4
	0.10	42000	13116	190000	1.20			
	0.12	36700	11647	190000	1.35			
	0.19	23800	7343	190000	2.1			
	0.12	37500	11573	150000	0.85	TK	167 / TRF97	YDA 80K4
	0.13	33300	10264	150000	0.95	TKH	167 / TRF97	YDA 80K4
	0.16	27900	8628	150000	1.15			
	0.21	21200	6562	150000	1.50			
	0.25	16900	5355	150000	1.90			
	0.33	13100	4079	150000	2.5			
	0.20	22300	6881	109700	0.80	TK	157 / TRF97	YDA 80K4
	0.23	19200	5931	111600	0.95	TKF	157 / TRF97	YDA 80K4
	0.34	12900	3979	114400	1.40	TKA	157 / TRF97	YDA 80K4
	0.45	9880	3051	115300	1.80	TKAF	157 / TRF97	YDA 80K4
	0.31	14900	4423	76100	0.85	TK	127 / TRF77	YDA 80K4
	0.35	13100	3889	79100	1.00	TKF	127 / TRF77	YDA 80K4
	0.41	11100	3311	80200	1.20	TKA	127 / TRF77	YDA 80K4
	0.45	10000	3009	80700	1.30	TKAF	127 / TRF77	YDA 80K4
	0.52	8590	2607	81200	1.50			
	0.71	6620	1926	81900	1.95	TK	127 / TRF77	YDA 80K4
	0.77	6040	1757	82100	2.2	TKF	127 / TRF77	YDA 80K4
	0.88	5270	1541	82200	2.5	TKA	127 / TRF77	YDA 80K4
	1.0	4610	1342	82400	2.8	TKAF	127 / TRF77	YDA 80K4
	1.2	4020	1177	82500	3.2			
	1.3	3520	1025	82600	3.7			
	0.46	10100	2977	65000	0.80	TK	107 / TRF77	YDA 80K4
	0.52	8830	2599	65000	0.90	TKF	107 / TRF77	YDA 80K4
	0.59	7720	2286	65000	1.05	TKA	107 / TRF77	YDA 80K4
	0.70	6540	1939	65000	1.20	TKAF	107 / TRF77	YDA 80K4
	0.79	5920	1713	65000	1.35	TK	107 / TRF77	YDA 80K4
	0.87	5370	1554	65000	1.50	TKF	107 / TRF77	YDA 80K4
	1.0	4610	1336	65000	1.75	TKA	107 / TRF77	YDA 80K4
	1.2	4030	1166	65000	2.0	TKAF	107 / TRF77	YDA 80K4
	1.3	3460	1030	65000	2.3			
	1.5	3010	904	65000	2.7			
	1.7	2730	793	65000	2.9			
	1.9	2380	696	65000	3.4			
	2.2	2050	615	65000	3.9			
	0.95	4940	1430	40000	0.85	TK	97 / TRF57	YDA 80K4
	1.1	4440	1261	40000	0.95	TKF	97 / TRF57	YDA 80K4
	1.2	3870	1102	40000	1.10	TKA	97 / TRF57	YDA 80K4
	1.4	3400	957	40000	1.25	TKAF	97 / TRF57	YDA 80K4
	1.6	3040	855	40000	1.40			
	1.8	2550	743	40000	1.70			

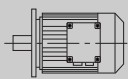
PERFORMANCE PARAMETER



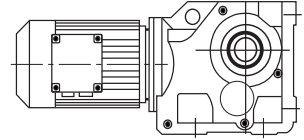
P_{1n} (kW)	N_2 (r/min)	M_{2n} (Nm)	i	F_{r2} (N)	f_s			
0.55	2.1	2250	652	40000	1.90	TK	97 / TRF57	YDA 80K4
	2.4	2020	573	40000	2.1	TKF	97 / TRF57	YDA 80K4
	2.7	1720	504	40000	2.5	TKA	97 / TRF57	YDA 80K4
	3.1	1480	437	40000	2.9	TKAF	97 / TRF57	YDA 80K4
	3.6	1320	382	40000	3.3			
	4.5	1070	305	40000	4.0			
	1.4	3300	951	26400	0.80	TK	87 / TRF57	YDA 80K4
	1.6	2890	837	27000	0.95	TKF	87 / TRF57	YDA 80K4
	1.9	2510	726	27500	1.10	TKA	87 / TRF57	YDA 80K4
	2.1	2220	638	27800	1.20	TKAF	87 / TRF57	YDA 80K4
	2.4	1940	562	28100	1.40			
	2.9	1640	474	28400	1.65			
	3.2	1470	426	28500	1.85			
	3.6	1290	373	28600	2.1			
	4.1	1130	330	28700	2.4			
	4.6	1010	294	28800	2.7			
	5.4	870	250	28800	3.1			
	5.8	820	236	28900	3.3			
	6.8	695	201	28900	3.9			
	2.8	1690	485	14300	0.90	TK	77 / TRF37	YDA 80K4
	3.2	1490	428	15800	1.05	TKF	77 / TRF37	YDA 80K4
	3.7	1290	367	17000	1.20	TKA	77 / TRF37	YDA 80K4
	4.2	1150	328	17700	1.35	TKAF	77 / TRF37	YDA 80K4
	4.7	1020	290	18200	1.50			
	5.4	880	252	18700	1.75			
	6.2	770	221	19100	2.0			
	7.0	680	195	19300	2.3			
	7.8	605	175	19500	2.6			
	8.8	535	154	19600	2.9			
	4.9	970	279	6400	0.85	TK	67 / TRF37	YDA 80K4
	5.5	850	246	9990	0.95	TKF	67 / TRF37	YDA 80K4
	6.2	760	217	10800	1.10	TKA	67 / TRF37	YDA 80K4
	7.1	670	191	11500	1.25	TKAF	67 / TRF37	YDA 80K4
	8.2	575	166	12000	1.40			
	9.4	505	144	12400	1.60			
	11	430	122	12700	1.90			
	7.1	670	192	4080	0.90	TK	57 / TRF37	YDA 80K4
	8.2	580	166	7800	1.05	TKF	57 / TRF37	YDA 80K4
	9.4	510	145	8360	1.20	TKA	57 / TRF37	YDA 80K4
	11	455	129	8630	1.30	TKAF	57 / TRF37	YDA 80K4
	12	390	111	8930	1.55			
	14	340	97	9120	1.75			
	3.9	1350	174.19	28600	2.0	TK	87	YDA 90L8
	4.1	1270	164.34*	28600	2.1	TKF	87	YDA 90L8
	4.6	1140	147.32*	28700	2.4	TKA	87	YDA 90L8
						TKAF	87	YDA 90L8
	4.6	1150	197.37	28700	2.3	TK	87	YDA 80N6
	5.2	1020	174.19	28800	2.7	TKF	87	YDA 80N6
	5.5	960	164.34*	28800	2.8	TKA	87	YDA 80N6
	6.1	860	147.32*	28900	3.1	TKAF	87	YDA 80N6
	5.0	1040	135.28	18100	1.50	TK	77	YDA 90L8
	5.3	990	128.52	18300	1.55	TKF	77	YDA 90L8
	6.0	880	113.56	18700	1.75	TKA	77	YDA 90L8
	7.0	750	97.05	19100	2.1	TKAF	77	YDA 90L8

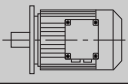


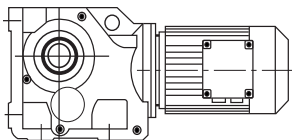
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
0.55	5.8	900	154.02	18700	1.70	TK	77	YDA 80N6
	6.7	790	135.28	19000	1.95	TKF	77	YDA 80N6
	7.0	750	128.52	19100	2.1	TKA	77	YDA 80N6
	7.9	665	113.56	19400	2.3	TKAF	77	YDA 80N6
	8.8	595	154.02	19500	2.6	TK	77	YDA 80K4
	10	520	135.28	19700	3.0	TKF	77	YDA 80K4
	11	495	128.52	19700	3.1	TKA	77	YDA 80K4
	12	440	113.56	19800	3.5	TKAF	77	YDA 80K4
	14	375	97.05	19900	4.1			
	7.3	720	123.54	11100	1.15	TK	67	YDA 80N6
	8.3	630	108.03	11700	1.30	TKF	67	YDA 80N6
	8.8	600	102.62	11900	1.35	TKA	67	YDA 80N6
	10	525	90.04	12300	1.55	TKAF	67	YDA 80N6
	12	445	76.37	12600	1.85			
	11	475	123.54	12500	1.70	TK	67	YDA 80K4
	13	415	108.03	12800	1.95	TKF	67	YDA 80K4
	15	350	90.04	13000	2.4	TKA	67	YDA 80K4
	18	295	76.37	13000	2.8	TKAF	67	YDA 80K4
	8.3	630	108.29	7360	0.95	TK	57	YDA 80N6
	8.8	600	102.88*	7630	1.00	TKF	57	YDA 80N6
	10	525	90.26*	8220	1.15	TKA	57	YDA 80N6
	12	445	76.56*	8670	1.35	TKAF	57	YDA 80N6
	13	405	69.12	8870	1.50			
	15	355	60.81*	9070	1.70			
	16	335	57.42*	9150	1.80			
	11	480	123.85	8520	1.25	TK	57	YDA 80K4
	13	420	108.29	8800	1.45	TKF	57	YDA 80K4
	13	395	102.88*	8890	1.50	TKA	57	YDA 80K4
	15	350	90.26*	9100	1.70	TKAF	57	YDA 80K4
	18	295	76.56*	9300	2.0			
	20	265	69.12	9410	2.3			
	22	235	60.81*	9520	2.6			
	24	220	57.42*	9560	2.7			
	13	405	104.37	5880	1.00	TK	47	YDA 80K4
	15	350	90.86	6550	1.15	TKF	47	YDA 80K4
	16	330	85.12*	6790	1.20	TKA	47	YDA 80K4
	18	290	75.20*	7150	1.40	TKAF	47	YDA 80K4
	19	270	69.84	7310	1.50			
	21	245	63.30*	7500	1.65	TK	47	YDA 80K4
	24	220	56.83	7660	1.80	TKF	47	YDA 80K4
	28	189	48.95*	7830	2.1	TKA	47	YDA 80K4
	30	178	46.03*	7880	2.3	TKAF	47	YDA 80K4
	23	225	58.60	4850	0.90	TK	37	YDA 80K4
	27	192	49.79	4790	1.05	TKF	37	YDA 80K4
	31	172	44.46	4740	1.15	TKA	37	YDA 80K4
	36	147	37.97	4640	1.35	TKAF	37	YDA 80K4
	38	137	35.57	4600	1.45			
	45	116	29.96	4470	1.75			
	47	111	28.83	4440	1.80			
	54	97	24.99	4320	2.1			
	58	90	23.36	4260	2.2			
	67	78	20.19	4130	2.4			
	79	66	17.15	3980	2.7			
	89	59	15.31	3880	3.0			
	104	51	13.08	3730	3.3			
	112	47	12.14	3660	3.4			

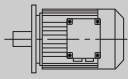
PERFORMANCE PARAMETER



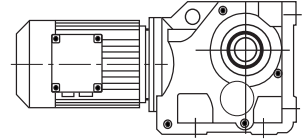
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
0.55	130	41	10.49	3520	4.0	TK	37	YDA 80K4
	153	34	8.91	3370	4.7	TKF	37	YDA 80K4
	171	31	7.96	3270	5.1	TKA	37	YDA 80K4
	200	26	6.80	3130	5.7	TKAF	37	YDA 80K4
	214	25	6.37	3070	5.9			
	254	21	5.36	2920	6.8			
	342	15	3.98	2680	8.1			
0.75	0.11	58000	13116	190000	0.85	TK	187 / TRF97	YDA 80N4
	0.12	50900	11647	190000	1.00	TKH	187 / TRF97	YDA 80N4
	0.19	32700	7343	190000	1.55			
	0.20	29900	6747	190000	1.65			
	0.23	26200	5991	190000	1.90			
	0.16	38500	8628	150000	0.85	TK	167 / TRF97	YDA 80N4
	0.21	29300	6562	150000	1.10	TKH	167 / TRF97	YDA 80N4
	0.26	23400	5355	150000	1.35			
	0.34	18100	4079	150000	1.75			
	0.41	15100	3376	150000	2.1			
	0.35	17700	3979	112300	1.00	TK	157 / TRF97	YDA 80N4
	0.45	13600	3051	114100	1.30	TKF	157 / TRF97	YDA 80N4
						TKA	157 / TRF97	YDA 80N4
						TKAF	157 / TRF97	YDA 80N4
	0.83	7490	1659	115900	2.4	TK	157 / TRF97	YDA 80N4
	1.0	6040	1365	116200	3.0	TKF	157 / TRF97	YDA 80N4
						TKA	157 / TRF97	YDA 80N4
						TKAF	157 / TRF97	YDA 80N4
	0.42	15100	3311	75700	0.85	TK	127 / TRF77	YDA 80N4
	0.46	13700	3009	78600	0.95	TKF	127 / TRF77	YDA 80N4
	0.53	11800	2607	79800	1.10	TKA	127 / TRF77	YDA 80N4
						TKAF	127 / TRF77	YDA 80N4
	0.72	9010	1926	81100	1.45	TK	127 / TRF77	YDA 80N4
	0.79	8220	1757	81400	1.60	TKF	127 / TRF77	YDA 80N4
	0.90	7180	1541	81700	1.80	TKA	127 / TRF77	YDA 80N4
	1.0	6280	1342	82000	2.1	TKAF	127 / TRF77	YDA 80N4
	1.2	5480	1177	82200	2.4			
	1.4	4790	1025	82300	2.7			
	1.5	4190	899	82500	3.1			
	0.81	8040	1713	65000	1.00	TK	107 / TRF77	YDA 80N4
	0.89	7300	1554	65000	1.10	TKF	107 / TRF77	YDA 80N4
	1.0	6270	1336	65000	1.30	TKA	107 / TRF77	YDA 80N4
	1.2	5470	1166	65000	1.45	TKAF	107 / TRF77	YDA 80N4
	1.3	4740	1030	65000	1.70			
	1.5	4130	904	65000	1.95			
	1.7	3710	793	65000	2.2			
	2.0	3240	696	65000	2.5			
	2.2	2810	615	65000	2.8			
	1.2	5240	1102	39600	0.80	TK	97 / TRF57	YDA 80N4
	1.4	4600	957	40000	0.95	TKF	97 / TRF57	YDA 80N4
	1.6	4110	855	40000	1.05	TKA	97 / TRF57	YDA 80N4
	1.9	3470	743	40000	1.25	TKAF	97 / TRF57	YDA 80N4
	2.1	3050	652	40000	1.40			
	2.4	2740	573	40000	1.55			
	2.7	2350	504	40000	1.85			
	3.2	2020	437	40000	2.1			
	3.6	1790	382	40000	2.4			

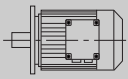


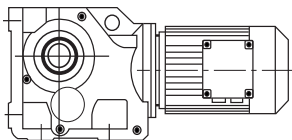
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs		
0.75	4.5	1450	305	40000	3.0	TK 97 / TRF57	YDA 80N4
	5.4	1220	258	40000	3.5	TKF 97 / TRF57	YDA 80N4
	6.0	1100	232	40000	3.9	TKA 97 / TRF57	YDA 80N4
	6.9	940	199	40000	4.6	TKAF 97 / TRF57	YDA 80N4
	1.9	3410	726	26300	0.80	TK 87 / TRF57	YDA 80N4
	2.2	3010	638	26900	0.90	TKF 87 / TRF57	YDA 80N4
	2.5	2640	562	27400	1.00	TKA 87 / TRF57	YDA 80N4
	2.9	2220	474	27800	1.20	TKAF 87 / TRF57	YDA 80N4
	3.2	2000	426	28100	1.35		
	3.7	1760	373	28300	1.55		
	4.2	1540	330	28400	1.75		
	4.7	1370	294	28600	1.95		
	5.5	1190	250	28700	2.3		
	5.8	1120	236	28700	2.4		
	6.9	950	201	28800	2.9		
	3.8	1740	367	13900	0.90	TK 77 / TRF37	YDA 80N4
	4.2	1550	328	15400	1.00	TKF 77 / TRF37	YDA 80N4
	4.8	1380	290	16500	1.15	TKA 77 / TRF37	YDA 80N4
	5.5	1190	252	17500	1.30	TKAF 77 / TRF37	YDA 80N4
	6.2	1040	221	18100	1.50		
	3.9	1830	176.05*	40000	2.4	TK 97	YDA 100M8
	4.5	1590	153.21*	40000	2.7	TKF 97	YDA 100M8
	4.9	1460	140.28	40000	3.0	TKA 97	YDA 100M8
						TKAF 97	YDA 100M8
	4.7	1530	147.32*	28500	1.75	TK 87	YDA 100M8
	5.4	1320	126.91*	28600	2.1	TKF 87	YDA 100M8
	6.0	1200	115.82	28700	2.3	TKA 87	YDA 100M8
	6.7	1070	102.71*	28700	2.5	TKAF 87	YDA 100M8
	5.2	1390	174.19	28600	1.95	TK 87	YDA 90S6
	5.5	1310	164.34*	28600	2.1	TKF 87	YDA 90S6
	6.1	1170	147.32*	28700	2.3	TKA 87	YDA 90S6
	7.1	1010	126.91*	28800	2.7	TKAF 87	YDA 90S6
	7.0	1020	197.37	28800	2.6	TK 87	YDA 80N4
	7.9	900	174.19	28800	3.0	TKF 87	YDA 80N4
	8.4	850	164.34*	28900	3.2	TKA 87	YDA 80N4
	9.4	765	147.32*	28900	3.5	TKAF 87	YDA 80N4
	6.7	1080	135.28	18000	1.45	TK 77	YDA 90S6
	7.0	1020	128.52	18200	1.50	TKF 77	YDA 90S6
	7.9	900	113.56	18700	1.70	TKA 77	YDA 90S6
	9.3	770	97.05	19100	2.0	TKAF 77	YDA 90S6
	10	710	88.97	19200	2.2		
	9.0	800	154.02	19000	1.95	TK 77	YDA 80N4
	10	700	135.28	19300	2.2	TKF 77	YDA 80N4
	11	665	128.52	19300	2.3	TKA 77	YDA 80N4
	12	590	113.56	19500	2.6	TKAF 77	YDA 80N4
	14	505	97.05	19700	3.1		
	11	640	123.54	11700	1.30	TK 67	YDA 80N4
	13	560	108.03	12100	1.45	TKF 67	YDA 80N4
	15	465	90.04	12600	1.75	TKA 67	YDA 80N4
						TKAF 67	YDA 80N4
	18	395	76.37	12800	2.1	TK 67	YDA 80N4
	20	360	68.95	13000	2.3	TKF 67	YDA 80N4
	23	315	60.66	13000	2.6	TKA 67	YDA 80N4
	24	295	57.28	13000	2.8	TKAF 67	YDA 80N4

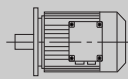
PERFORMANCE PARAMETER



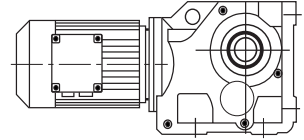
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
0.75	11	645	123.85	7130	0.95	TK	57	YDA 80N4
	13	560	108.29	7940	1.05	TKF	57	YDA 80N4
	13	535	102.88*	8160	1.10	TKA	57	YDA 80N4
	15	470	90.26*	8570	1.30	TKAF	57	YDA 80N4
	18	395	76.56*	8890	1.50			
	20	360	69.12	9060	1.65			
	23	315	60.81*	9230	1.90			
	24	300	57.42*	9290	2.0			
	28	255	48.89	9450	2.4			
	31	230	44.43	9530	2.6			
	18	390	75.20*	6060	1.00	TK	47	YDA 80N4
	20	365	69.84	6410	1.10	TKF	47	YDA 80N4
	22	330	63.30*	6790	1.20	TKA	47	YDA 80N4
						TKAF	47	YDA 80N4
	24	295	56.83	7110	1.35	TK	47	YDA 80N4
	28	255	48.95*	7430	1.55	TKF	47	YDA 80N4
	30	240	46.03*	7540	1.65	TKA	47	YDA 80N4
	35	205	39.61	7740	1.95	TKAF	47	YDA 80N4
	39	184	35.39	7760	2.2			
	44	162	31.30	7550	2.5			
	31	230	44.46	4170	0.85	TK	37	YDA 80N4
	36	197	37.97	4150	1.00	TKF	37	YDA 80N4
	39	185	35.57	4140	1.10	TKA	37	YDA 80N4
	46	156	29.96	4080	1.30	TKAF	37	YDA 80N4
	48	150	28.83	4060	1.35			
	55	130	24.99	3990	1.55			
	59	121	23.36	3950	1.60			
	68	105	20.19	3860	1.75			
	80	89	17.15	3750	2.0			
	90	80	15.31	3670	2.2			
	105	68	13.08	3550	2.4			
	114	63	12.14	3500	2.5			
	132	54	10.49	3380	2.9			
	155	46	8.91	3250	3.5			
	173	41	7.96	3160	3.8			
	203	35	6.80	3030	4.3			
	217	33	6.37	2980	4.4			
	257	28	5.36	2840	5.0			
	347	21	3.98	2620	6.0			
	1.1	0.15	59700	9363	190000	0.85	TK	187 / TRF97
0.17		51100	8126	190000	1.00	TKH	187 / TRF97	YDA 90S4
0.19		48400	7343	190000	1.05			
0.21		44200	6747	190000	1.15			
0.23		39000	5991	190000	1.30			
0.26		34500	5358	190000	1.45			
0.29		30700	4817	190000	1.65			
0.32		27900	4370	190000	1.80			
0.26		34800	5355	150000	0.90	TK	167 / TRF97	YDA 90S4
0.29		30800	4788	150000	1.05	TKH	167 / TRF97	YDA 90S4
0.34		26700	4079	150000	1.20			
0.41		22300	3376	150000	1.45			
0.51		17900	2755	150000	1.80			
0.64		14600	2182	150000	2.2	TK	167 / TRF97	YDA 90S4
0.82		11300	1704	150000	2.8	TKH	167 / TRF97	YDA 90S4
0.99		9390	1408	150000	3.4			
1.1		8600	1296	150000	3.7			

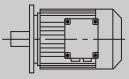


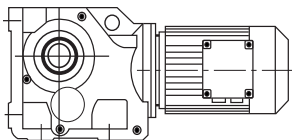
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	f _s			
1.1 □	0.40 □	22700 □	3516 □	109500 □	0.80 □	TK □	157 / TRF97 □	YDA 90S4 □
	0.46 □	20100 □	3051 □	111100 □	0.90 □	TKF □	157 / TRF97 □	YDA 90S4 □
	0.54 □	16700 □	2610 □	112800 □	1.10 □	TKA □	157 / TRF97 □	YDA 90S4 □
	0.60 □	14800 □	2322 □	113600 □	1.20 □	TKAF □	157 / TRF97 □	YDA 90S4 □
	0.84 □	11100 □	1659 □	115000 □	1.65 □	TK □	157 / TRF97 □	YDA 90S4 □
	1.0 □	8980 □	1365 □	115600 □	2.0 □	TKF □	157 / TRF97 □	YDA 90S4 □
	1.1 □	8010 □	1229 □	115800 □	2.3 □	TKA □	157 / TRF97 □	YDA 90S4 □
	1.3 □	7130 □	1093 □	116000 □	2.5 □	TKAF □	157 / TRF97 □	YDA 90S4 □
	1.5 □	6150 □	942 □	116100 □	2.9 □			
	1.6 □	5510 □	854 □	116200 □	3.3 □			
	0.73 □	13200 □	1926 □	79100 □	1.00 □	TK □	127 / TRF77 □	YDA 90S4 □
	0.80 □	12000 □	1757 □	79700 □	1.10 □	TKF □	127 / TRF77 □	YDA 90S4 □
	0.91 □	10500 □	1541 □	80500 □	1.25 □	TKA □	127 / TRF77 □	YDA 90S4 □
	1.0 □	9170 □	1342 □	81000 □	1.40 □	TKAF □	127 / TRF77 □	YDA 90S4 □
	1.2 □	8020 □	1177 □	81400 □	1.60 □			
	1.4 □	7010 □	1025 □	81800 □	1.85 □			
	1.6 □	6130 □	899 □	82000 □	2.1 □			
	1.8 □	5280 □	790 □	82200 □	2.5 □			
	2.0 □	4780 □	704 □	82300 □	2.7 □			
	2.3 □	4110 □	610 □	82500 □	3.2 □			
	2.6 □	3710 □	549 □	82500 □	3.5 □			
	2.9 □	3190 □	477 □	82600 □	4.1 □			
	1.2 □	7990 □	1166 □	65000 □	1.00 □	TK □	107 / TRF77 □	YDA 90S4 □
	1.4 □	6960 □	1030 □	65000 □	1.15 □	TKF □	107 / TRF77 □	YDA 90S4 □
	1.6 □	6080 □	904 □	65000 □	1.30 □	TKA □	107 / TRF77 □	YDA 90S4 □
	1.8 □	5420 □	793 □	65000 □	1.50 □	TKAF □	107 / TRF77 □	YDA 90S4 □
	2.0 □	4740 □	696 □	65000 □	1.70 □			
	2.3 □	4140 □	615 □	65000 □	1.95 □			
	2.7 □	3510 □	522 □	65000 □	2.3 □			
	3.0 □	3090 □	461 □	65000 □	2.6 □			
	3.4 □	2720 □	408 □	65000 □	2.9 □			
	3.9 □	2470 □	364 □	65000 □	3.2 □			
	4.4 □	2160 □	318 □	65000 □	3.7 □			
	1.9 □	5070 □	743 □	39800 □	0.85 □	TK □	97 / TRF57 □	YDA 90S4 □
	2.1 □	4460 □	652 □	40000 □	0.95 □	TKF □	97 / TRF57 □	YDA 90S4 □
	2.4 □	3990 □	573 □	40000 □	1.10 □	TKA □	97 / TRF57 □	YDA 90S4 □
	2.8 □	3430 □	504 □	40000 □	1.25 □	TKAF □	97 / TRF57 □	YDA 90S4 □
	3.2 □	2970 □	437 □	40000 □	1.45 □			
	3.7 □	2620 □	382 □	40000 □	1.65 □			
	4.1 □	2320 □	342 □	40000 □	1.85 □			
	3.0 □	3250 □	474 □	26500 □	0.85 □	TK □	87 / TRF57 □	YDA 90S4 □
	3.3 □	2920 □	426 □	27000 □	0.90 □	TKF □	87 / TRF57 □	YDA 90S4 □
	3.8 □	2570 □	373 □	27400 □	1.05 □	TKA □	87 / TRF57 □	YDA 90S4 □
	4.2 □	2250 □	330 □	27800 □	1.20 □	TKAF □	87 / TRF57 □	YDA 90S4 □
	4.8 □	2010 □	294 □	28000 □	1.35 □			
	5.6 □	1730 □	250 □	28300 □	1.55 □			
	5.9 □	1630 □	236 □	28400 □	1.65 □			
	7.0 □	1390 □	201 □	28600 □	1.95 □			
	3.8 □	2760 □	176.05* □	40000 □	1.55 □	TK □	97 □	YDA 100L8 □
	4.4 □	2400 □	153.21* □	40000 □	1.80 □	TKF □	97 □	YDA 100L8 □
	4.8 □	2200 □	140.28 □	40000 □	1.95 □	TKA □	97 □	YDA 100L8 □
	5.4 □	1940 □	123.93* □	40000 □	2.2 □	TKAF □	97 □	YDA 100L8 □
	5.2 □	2010 □	176.05* □	40000 □	2.1 □	TK □	97 □	YDA 90L6 □
	6.0 □	1750 □	153.21* □	40000 □	2.5 □	TKF □	97 □	YDA 90L6 □
	6.6 □	1600 □	140.28 □	40000 □	2.7 □	TKA □	97 □	YDA 90L6 □
	7.4 □	1420 □	123.93* □	40000 □	3.0 □	TKAF □	97 □	YDA 90L6 □

PERFORMANCE PARAMETER

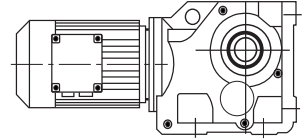


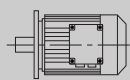
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs		
1.1	8.0	1320	176.05*	40000	3.3	TK 97	YDA 90S4
	9.1	1150	153.21*	40000	3.7	TKF 97	YDA 90S4
	10	1050	140.28	40000	4.1	TKA 97	YDA 90S4
						TKAF 97	YDA 90S4
	5.3	1990	174.19	28100	1.35	TK 87	YDA 90L6
	5.6	1880	164.34*	28200	1.45	TKF 87	YDA 90L6
	6.2	1680	147.32*	28300	1.60	TKA 87	YDA 90L6
	7.2	1450	126.91*	28500	1.85	TKAF 87	YDA 90L6
	8.0	1310	174.19	28600	2.1	TK 87	YDA 90S4
	8.5	1230	164.34*	28700	2.2	TKF 87	YDA 90S4
	9.5	1110	147.32*	28700	2.4	TKA 87	YDA 90S4
	11	950	126.91*	28800	2.8	TKAF 87	YDA 90S4
	12	870	115.82	28800	3.1		
	6.8	1540	135.28	15400	1.00	TK 77	YDA 90L6
	7.2	1470	128.52	15900	1.05	TKF 77	YDA 90L6
	8.1	1300	113.56	17000	1.20	TKA 77	YDA 90L6
	9.5	1110	97.05	17900	1.40	TKAF 77	YDA 90L6
	10	1020	135.28	18300	1.55	TK 77	YDA 90S4
	11	960	128.52	18400	1.60	TKF 77	YDA 90S4
	12	850	113.56	18800	1.80	TKA 77	YDA 90S4
						TKAF 77	YDA 90S4
	14	730	97.05	19200	2.1	TK 77	YDA 90S4
	16	670	88.97	19300	2.3	TKF 77	YDA 90S4
	18	585	78.07	19500	2.7	TKA 77	YDA 90S4
	19	555	73.99	19600	2.8	TKAF 77	YDA 90S4
	13	810	108.03	10400	1.00	TK 67	YDA 90S4
	14	770	102.62	10700	1.05	TKF 67	YDA 90S4
	16	675	90.04	11400	1.20	TKA 67	YDA 90S4
	18	575	76.37	12000	1.45	TKAF 67	YDA 90S4
	20	515	68.95	12300	1.60		
	23	455	60.66	12600	1.80	TK 67	YDA 90S4
	24	430	57.28	12700	1.90	TKF 67	YDA 90S4
	29	365	48.77	12900	2.2	TKA 67	YDA 90S4
	32	335	44.32	13000	2.5	TKAF 67	YDA 90S4
	36	290	38.39	13000	2.8		
	16	675	90.26*	2410	0.90	TK 57	YDA 90S4
	18	575	76.56*	7840	1.05	TKF 57	YDA 90S4
	20	520	69.12	8280	1.15	TKA 57	YDA 90S4
	23	455	60.81*	8630	1.30	TKAF 57	YDA 90S4
	24	430	57.42*	8750	1.40		
	29	365	48.89	9020	1.65		
	32	335	44.43	9160	1.80		
	36	290	38.49	9330	2.1	TK 57	YDA 90S4
	39	270	35.70	9400	2.2	TKF 57	YDA 90S4
	46	225	30.28	9540	2.6	TKA 57	YDA 90S4
	51	205	27.34	9510	2.9	TKAF 57	YDA 90S4
	58	181	24.05	9220	3.3		
	62	170	22.71	9090	3.5		
	72	145	19.34	8720	4.0		
	80	132	17.57	8510	4.2		
	92	114	15.22	8180	4.7		
	106	99	13.25	7880	5.1		
	117	90	11.92	7570	4.6		
	124	85	11.26	7450	4.9		
	146	72	9.59	7120	5.6		

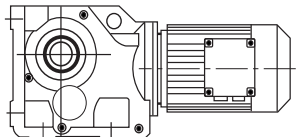


P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
1.1	161	65	8.71	6930	6.0	TK	57	YDA 90S4
	186	57	7.55	6650	6.5	TKF	57	YDA 90S4
	213	49	6.57	6380	7.0	TKA	57	YDA 90S4
	298	35	4.69	5770	8.5	TKAF	57	YDA 90S4
	25	425	56.83	3310	0.95	TK	47	YDA 90S4
	29	365	48.95*	6360	1.10	TKF	47	YDA 90S4
	30	345	46.03*	6610	1.15	TKA	47	YDA 90S4
						TKAF	47	YDA 90S4
	35	295	39.61	7090	1.35	TK	47	YDA 90S4
	40	265	35.39	7090	1.50	TKF	47	YDA 90S4
	45	235	31.30	6960	1.70	TKA	47	YDA 90S4
	48	220	29.32	6890	1.80	TKAF	47	YDA 90S4
	54	194	25.91	6730	2.1			
	64	164	21.81	6510	2.4			
	72	147	19.58	6360	2.7			
	47	225	29.96	3420	0.90	TK	37	YDA 90S4
	56	188	24.99	3440	1.05	TKF	37	YDA 90S4
	60	175	23.36	3440	1.10	TKA	37	YDA 90S4
	69	152	20.19	3420	1.20	TKAF	37	YDA 90S4
	82	129	17.15	3370	1.40			
	91	115	15.31	3330	1.50			
	107	98	13.08	3260	1.70			
	115	91	12.14	3220	1.75			
	133	79	10.49	3140	2.0			
	157	67	8.91	3040	2.4			
	176	60	7.96	2970	2.6			
	206	51	6.80	2870	2.9			
	220	48	6.37	2830	3.0			
	261	40	5.36	2720	3.5			
	352	30	3.98	2520	4.2			
1.5	0.21	60800	6747	190000	0.80	TK	187 / TRF97	YDA 90L4
	0.24	53600	5991	190000	0.95	TKH	187 / TRF97	YDA 90L4
	0.26	47600	5358	190000	1.05			
	0.29	42500	4817	190000	1.20			
	0.32	38600	4370	190000	1.30			
	0.39	33100	3609	190000	1.50	TK	187 / TRF97	YDA 90L4
	0.46	28000	3062	190000	1.80	TKH	187 / TRF97	YDA 90L4
	0.56	22800	2519	190000	2.2			
	0.62	20400	2268	190000	2.5			
	0.35	36700	4079	150000	0.85	TK	167 / TRF97	YDA 90L4
	0.42	30500	3376	150000	1.05	TKH	167 / TRF97	YDA 90L4
	0.51	24700	2755	150000	1.30			
	0.65	20000	2182	150000	1.60	TK	167 / TRF97	YDA 90L4
	0.83	15500	1704	150000	2.1	TKH	167 / TRF97	YDA 90L4
	1.0	12900	1408	150000	2.5			
	1.1	11800	1296	150000	2.7			
	0.61	20500	2322	110800	0.90	TK	157 / TRF97	YDA 90L4
						TKF	157 / TRF97	YDA 90L4
						TKA	157 / TRF97	YDA 90L4
						TKAF	157 / TRF97	YDA 90L4
	0.85	15200	1659	113500	1.20	TK	157 / TRF97	YDA 90L4
	1.0	12400	1365	114600	1.45	TKF	157 / TRF97	YDA 90L4
	1.2	11100	1229	115000	1.65	TKA	157 / TRF97	YDA 90L4
	1.3	9840	1093	115300	1.85	TKAF	157 / TRF97	YDA 90L4

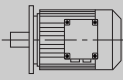
PERFORMANCE PARAMETER



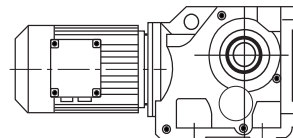
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
1.5	1.5	8480	942	115700	2.1	TK	157 / TRF97	YDA 90L4
	1.7	7630	854	115900	2.4	TKF	157 / TRF97	YDA 90L4
	2.5	5010	567	116300	3.6	TKA	157 / TRF97	YDA 90L4
	2.8	4460	504	116400	4.0	TKAF	157 / TRF97	YDA 90L4
	2.6	4830	536	82300	2.7	TK	127 / TRF87	YDA 90L4
	3.4	3800	418	82500	3.4	TKF	127 / TRF87	YDA 90L4
	3.8	3350	367	82600	3.9	TKA	127 / TRF87	YDA 90L4
						TKAF	127 / TRF87	YDA 90L4
	0.80	16400	1757	73100	0.80	TK	127 / TRF77	YDA 90L4
	0.91	14300	1541	77300	0.90	TKF	127 / TRF77	YDA 90L4
	1.1	12500	1342	79500	1.05	TKA	127 / TRF77	YDA 90L4
	1.2	10900	1177	80300	1.20	TKAF	127 / TRF77	YDA 90L4
	1.4	9550	1025	80900	1.35			
	1.6	8360	899	81300	1.55			
	1.8	7240	790	81700	1.80			
	2.0	6520	704	81900	2.0			
	2.3	5620	610	82200	2.3			
	2.6	5080	549	82300	2.6			
	3.0	4370	477	82400	3.0			
	3.4	3870	418	82500	3.4			
	1.4	9520	1030	65000	0.85	TK	107 / TRF77	YDA 90L4
	1.6	8320	904	65000	0.95	TKF	107 / TRF77	YDA 90L4
	1.8	7390	793	65000	1.10	TKA	107 / TRF77	YDA 90L4
	2.0	6470	696	65000	1.25	TKAF	107 / TRF77	YDA 90L4
	2.3	5670	615	65000	1.40			
	2.7	4810	522	65000	1.65			
	3.1	4230	461	65000	1.90			
	3.5	3740	408	65000	2.1			
	3.9	3370	364	65000	2.4			
	4.4	2940	318	65000	2.7			
	2.5	5420	573	39400	0.80	TK	97 / TRF57	YDA 90L4
	2.8	4680	504	40000	0.90	TKF	97 / TRF57	YDA 90L4
	3.2	4050	437	40000	1.05	TKA	97 / TRF57	YDA 90L4
	3.7	3570	382	40000	1.20	TKAF	97 / TRF57	YDA 90L4
	4.1	3160	342	40000	1.35			
	4.6	2880	305	40000	1.50			
	5.5	2430	258	40000	1.75			
	6.1	2190	232	40000	1.95			
	7.1	1870	199	40000	2.3			
	4.3	3070	330	26800	0.90	TK	87 / TRF57	YDA 90L4
	4.8	2750	294	27200	1.00	TKF	87 / TRF57	YDA 90L4
	5.6	2360	250	27700	1.15	TKA	87 / TRF57	YDA 90L4
	6.0	2230	236	27800	1.20	TKAF	87 / TRF57	YDA 90L4
	7.0	1890	201	28200	1.45			
	7.7	1720	183	28300	1.55			
	4.9	2940	143.47*	65000	2.7	TK	107	YDA 112M8
	5.8	2490	121.46	65000	3.2	TKF	107	YDA 112M8
	6.2	2300	112.41*	65000	3.5	TKA	107	YDA 112M8
						TKAF	107	YDA 112M8
	4.6	3140	153.21*	40000	1.35	TK	97	YDA 112M8
	5.0	2870	140.28	40000	1.50	TKF	97	YDA 112M8
	5.7	2540	123.93*	40000	1.70	TKA	97	YDA 112M8
						TKAF	97	YDA 112M8
	5.2	2740	176.05*	40000	1.55	TK	97	YDA 100M6
	6.0	2390	153.21*	40000	1.80	TKF	97	YDA 100M6
	6.6	2180	140.28	40000	1.95	TKA	97	YDA 100M6
	7.4	1930	123.93*	40000	2.2	TKAF	97	YDA 100M6

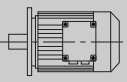


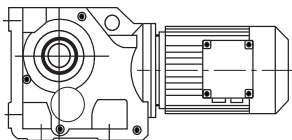
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
1.5	8.0	1790	176.05*	40000	2.4	TK	97	YDA 90L4
	9.2	1560	153.21*	40000	2.8	TKF	97	YDA 90L4
	10	1430	140.28	40000	3.0	TKA	97	YDA 90L4
	11	1260	123.93*	40000	3.4	TKAF	97	YDA 90L4
	6.2	2290	147.32*	27800	1.20	TK	87	YDA 100M6
	7.2	1980	126.91*	28100	1.35	TKF	87	YDA 100M6
	7.9	1800	115.82	28200	1.50	TKA	87	YDA 100M6
	9.0	1600	102.71*	28400	1.70	TKAF	87	YDA 100M6
	8.1	1770	174.19	28300	1.55	TK	87	YDA 90L4
	8.6	1670	164.34*	28300	1.60	TKF	87	YDA 90L4
	9.6	1500	147.32*	28500	1.80	TKA	87	YDA 90L4
	11	1290	126.91*	28600	2.1	TKAF	87	YDA 90L4
	12	1180	115.82	28700	2.3			
	14	1040	102.71*	28800	2.6			
	16	880	86.34	28800	3.1			
	8.1	1770	113.56	13600	0.90	TK	77	YDA 100M6
	9.5	1510	97.05	15700	1.05	TKF	77	YDA 100M6
	10	1390	88.97	16400	1.10	TKA	77	YDA 100M6
	12	1220	78.07	17400	1.30	TKAF	77	YDA 100M6
	10	1370	135.28	16500	1.15	TK	77	YDA 90L4
	11	1310	128.52	16900	1.20	TKF	77	YDA 90L4
	12	1150	113.56	17700	1.35	TKA	77	YDA 90L4
	15	990	97.05	18400	1.55	TKAF	77	YDA 90L4
	16	900	88.97	18700	1.70			
	18	795	78.07	19000	1.95	TK	77	YDA 90L4
	19	750	73.99	19100	2.1	TKF	77	YDA 90L4
	22	660	64.75	19400	2.4	TKA	77	YDA 90L4
	24	595	58.34	19500	2.6	TKAF	77	YDA 90L4
	28	520	51.18	19700	3.0			
	31	460	45.16	19800	3.4			
	35	405	40.04	19800	3.8			
	16	910	90.04	9370	0.90	TK	67	YDA 90L4
	18	775	76.37	10700	1.05	TKF	67	YDA 90L4
	20	700	68.95	11300	1.15	TKA	67	YDA 90L4
	23	615	60.66	11800	1.35	TKAF	67	YDA 90L4
	25	580	57.28	12000	1.40			
	29	495	48.77	12400	1.65			
	32	450	44.32	12600	1.80	TK	67	YDA 90L4
	37	390	38.39	12800	2.1	TKF	67	YDA 90L4
	40	360	35.62	12900	2.3	TKA	67	YDA 90L4
	47	305	30.22	13000	2.7	TKAF	67	YDA 90L4
	52	275	27.28	13000	3.0			
	59	245	24.00	13000	3.3			
	23	620	60.81*	7480	0.95	TK	57	YDA 90L4
	25	585	57.42*	7770	1.05	TKF	57	YDA 90L4
	29	495	48.89	8430	1.20	TKA	57	YDA 90L4
	32	450	44.43	8650	1.35	TKAF	57	YDA 90L4
	37	390	38.49	8920	1.55	TK	57	YDA 90L4
	39	365	35.70	9040	1.65	TKF	57	YDA 90L4
	47	310	30.28	9190	1.95	TKA	57	YDA 90L4
	52	280	27.34	9010	2.2	TKAF	57	YDA 90L4
	59	245	24.05	8780	2.5			
	62	230	22.71	8670	2.6			
	73	196	19.34	8360	2.9			

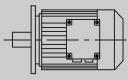
PERFORMANCE PARAMETER



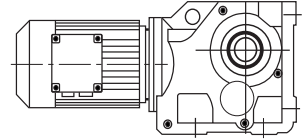
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
1.5□	36□	400□	39.61□	5890□	1.00□	TK□	47□	YDA 90L4□
	40□	360□	35.39□	6360□	1.10□	TKF□	47□	YDA 90L4□
	45□	320□	31.30□	6310□	1.25□	TKA□	47□	YDA 90L4□
						TKAF □	47□	YDA 90L4□
	48□	300□	29.32□	6270□	1.35□	TK□	47□	YDA 90L4□
	54□	265□	25.91□	6190□	1.50□	TKF□	47□	YDA 90L4□
	65□	220□	21.81□	6050□	1.80□	TKA□	47□	YDA 90L4□
	72□	199□	19.58□	5950□	2.0□	TKAF □	47□	YDA 90L4□
	84□	171□	16.86□	5800□	2.2□			
	89□	161□	15.86□	5730□	2.4□			
	103□	139□	13.65□	5560□	2.6□			
	116□	124□	12.19□	5430□	2.8□			
	120□	120□	11.77□	5340□	2.3□			
	60□	235□	23.36□	2860□	0.80□	TK□	37□	YDA 90L4□
	70□	205□	20.19□	2920□	0.90□	TKF□	37□	YDA 90L4□
	82□	174□	17.15□	2940□	1.05□	TKA□	37□	YDA 90L4□
	92□	156□	15.31□	2950□	1.10□	TKAF □	37□	YDA 90L4□
	108□	133□	13.08□	2930□	1.25□			
	116□	123□	12.14□	2920□	1.30□			
	134□	107□	10.49□	2880□	1.50□			
	158□	91□	8.91□	2820□	1.75□			
	177□	81□	7.96□	2770□	1.90□			
	207□	69□	6.80□	2700□	2.2□			
	221□	65□	6.37□	2670□	2.2□			
	263□	55□	5.36□	2580□	2.6□			
	354□	40□	3.98□	2420□	3.1□			
2.2□	0.32□	57700□	4370□	190000□	0.85□	TK□	187 / TRF97□	YDA 100M4□
	0.50□	36400□	2818□	190000□	1.40□	TKH□	187 / TRF97□	YDA 100M4□
	0.39□	49000□	3609□	190000□	1.00□	TK□	187 / TRF97□	YDA 100M4□
	0.46□	41600□	3062□	190000□	1.20□	TKH□	187 / TRF97□	YDA 100M4□
	0.56□	34000□	2519□	190000□	1.45□			
	0.62□	30400□	2268□	190000□	1.65□			
	0.69□	27400□	2054□	190000□	1.80□			
	0.77□	24200□	1821□	190000□	2.1□			
	0.88□	21400□	1605□	190000□	2.3□			
	0.51□	36700□	2755□	150000□	0.85□	TK□	167 / TRF97□	YDA 100M4□
	0.62□	29500□	2263□	150000□	1.10□	TKH□	167 / TRF97□	YDA 100M4□
	0.65□	29600□	2182□	150000□	1.10□	TK□	167 / TRF97□	YDA 100M4□
	0.83□	23100□	1704□	150000□	1.40□	TKH□	167 / TRF97□	YDA 100M4□
	1.0□	19100□	1408□	150000□	1.65□			
	1.1□	17500□	1296□	150000□	1.80□			
	1.3□	14600□	1101□	150000□	2.2□			
	1.5□	12600□	944□	150000□	2.5□			
	0.85□	22500□	1659□	109600□	0.80□	TK□	157 / TRF97□	YDA 100M4□
	1.0□	18400□	1365□	112000□	1.00□	TKF□	157 / TRF97□	YDA 100M4□
	1.2□	16500□	1229□	112900□	1.10□	TKA□	157 / TRF97□	YDA 100M4□
	1.3□	• 14700□	1093□	113700□	1.25□	TKAF □	157 / TRF97□	YDA 100M4□
	1.5□	12700□	942□	114500□	1.40□			
	1.7□	11400□	854□	114900□	1.60□			
	1.9□	9880□	756□	115300□	1.80□			
	2.6□	7200□	536□	81700□	1.80□	TK□	127 / TRF87□	YDA 100M4□
	3.0□	6300□	473□	82000□	2.1□	TKF□	127 / TRF87□	YDA 100M4□
	3.4□	5670□	418□	82100□	2.3□	TKA□	127 / TRF87□	YDA 100M4□
	3.8□	4970□	367□	82300□	2.6□	TKAF □	127 / TRF87□	YDA 100M4□
	4.3□	4460□	330□	82400□	2.9□			

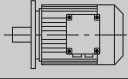


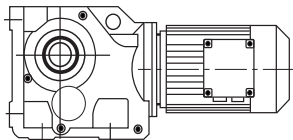
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs		
2.2□	1.4□	14100□	1025□	77800□	0.90□	TK□	127 / TRF77□ YDA 100M4□
	1.6□	12300□	899□	79500□	1.05□	TKF□	127 / TRF77□ YDA 100M4□
	1.8□	10700□	790□	80400□	1.20□	TKA□	127 / TRF77□ YDA 100M4□
	2.0□	9640□	704□	80800□	1.35□	TKAF□	127 / TRF77□ YDA 100M4□
	2.3□	8330□	610□	81300□	1.55□		
	2.6□	7510□	549□	81600□	1.75□		
	3.0□	6490□	477□	81900□	2.0□		
	3.4□	5720□	418□	82100□	2.3□		
	2.3□	8390□	615□	65000□	0.95□	TK□	107 / TRF77□ YDA 100M4□
	2.7□	7120□	522□	65000□	1.10□	TKF□	107 / TRF77□ YDA 100M4□
	3.1□	6270□	461□	65000□	1.30□	TKA□	107 / TRF77□ YDA 100M4□
	3.5□	5540□	408□	65000□	1.45□	TKAF□	107 / TRF77□ YDA 100M4□
	3.9□	4980□	364□	65000□	1.60□		
	4.4□	4350□	318□	65000□	1.85□		
	4.9□	3910□	286□	65000□	2.0□		
	5.6□	3430□	251□	65000□	2.3□		
	3.7□	5260□	382□	39600□	0.80□	TK□	97 / TRF57□ YDA 100M4□
	4.1□	4680□	342□	40000□	0.90□	TKF□	97 / TRF57□ YDA 100M4□
	4.6□	4240□	305□	40000□	1.00□	TKA□	97 / TRF57□ YDA 100M4□
	5.5□	3580□	258□	40000□	1.20□	TKAF□	97 / TRF57□ YDA 100M4□
	6.1□	3220□	232□	40000□	1.35□		
	7.1□	2760□	199□	40000□	1.55□		
	4.9□	4310□	143.47*□	65000□	1.85□	TK□	107□ YDA 132S8□
	5.8□	3650□	121.46□	65000□	2.2□	TKF□	107□ YDA 132S8□
	6.2□	3370□	112.41*□	65000□	2.4□	TKA□	107□ YDA 132S8□
	7.0□	3020□	100.75□	65000□	2.7□	TKAF□	107□ YDA 132S8□
	6.1□	3420□	153.21*□	40000□	1.25□	TK□	97□ YDA 112M6□
	6.7□	3140□	140.28□	40000□	1.35□	TKF□	97□ YDA 112M6□
	7.6□	2770□	123.93*□	40000□	1.55□	TKA□	97□ YDA 112M6□
	8.9□	2350□	105.13□	40000□	1.85□	TKAF□	97□ YDA 112M6□
	8.0□	2620□	176.05*□	40000□	1.65□	TK□	97□ YDA 100M4□
	9.2□	2280□	153.21*□	40000□	1.90□	TKF□	97□ YDA 100M4□
	10□	2090□	140.28□	40000□	2.1□	TKA□	97□ YDA 100M4□
	11□	1850□	123.93*□	40000□	2.3□	TKAF□	97□ YDA 100M4□
	13□	1570□	105.13□	40000□	2.8□	TK□	97□ YDA 100M4□
	15□	1440□	96.80□	40000□	3.0□	TKF□	97□ YDA 100M4□
						TKA□	97□ YDA 100M4□
						TKAF□	97□ YDA 100M4□
	9.6□	2200□	147.32*□	27900□	1.25□	TK□	87□ YDA 100M4□
	11□	1890□	126.91*□	28200□	1.45□	TKF□	87□ YDA 100M4□
	12□	1730□	115.82□	28300□	1.55□	TKA□	87□ YDA 100M4□
						TKAF□	87□ YDA 100M4□
	14□	1530□	102.71*□	28500□	1.75□	TK□	87□ YDA 100M4□
	16□	1290□	86.34□	28600□	2.1□	TKF□	87□ YDA 100M4□
	18□	1180□	79.34□	28700□	2.3□	TKA□	87□ YDA 100M4□
	20□	1050□	70.46□	28800□	2.6□	TKAF□	87□ YDA 100M4□
	22□	940□	63.00*□	28800□	2.9□		
	12□	1690□	113.56□	14300□	0.90□	TK□	77□ YDA 100M4□
	15□	1450□	97.05□	16100□	1.05□	TKF□	77□ YDA 100M4□
	16□	1330□	88.97□	16800□	1.15□	TKA□	77□ YDA 100M4□
	18□	1160□	78.07□	17600□	1.35□	TKAF□	77□ YDA 100M4□
	19□	1100□	73.99□	17900□	1.40□		
	22□	960□	64.75□	18400□	1.60□		
	24□	870□	58.34□	18800□	1.80□	TK□	77□ YDA 100M4□
	28□	765□	51.18□	19100□	2.0□	TKF□	77□ YDA 100M4□
	31□	675□	45.16□	19300□	2.3□	TKA□	77 YDA 100M4□
	35	595	40.04	19500	2.6	TKAF	77 YDA 100M4

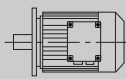
PERFORMANCE PARAMETER



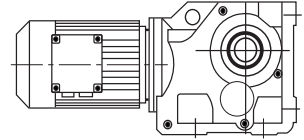
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
2.2	40	525	35.20	19700	3.0	TK	77	YDA 100M4
	46	460	30.89	19800	3.4	TKF	77	YDA 100M4
	48	435	29.27	19800	3.6	TKA	77	YDA 100M4
	55	380	25.62	19900	4.1	TKAF	77	YDA 100M4
	23	900	60.66	9490	0.90	TK	67	YDA 100M4
	25	850	57.28	10000	0.95	TKF	67	YDA 100M4
	29	725	48.77	11100	1.15	TKA	67	YDA 100M4
	32	660	44.32	11500	1.25	TKAF	67	YDA 100M4
	37	570	38.39	12100	1.40			
	40	530	35.62	12300	1.55			
	47	450	30.22	12600	1.80			
	52	405	27.28	12800	2.0	TK	67	YDA 100M4
	59	360	24.00	13000	2.2	TKF	67	YDA 100M4
	62	340	22.66	13000	2.3	TKA	67	YDA 100M4
	73	285	19.30	13000	2.6	TKAF	67	YDA 100M4
	80	260	17.54	13000	2.8			
	93	225	15.19	13000	3.1			
	107	197	13.22	13000	3.4			
	113	186	12.48	13000	2.9			
	133	158	10.63	13000	3.2			
	146	144	9.66	13000	3.3			
	169	125	8.37	13000	3.5			
	194	109	7.28	12700	3.9			
	271	78	5.20	11700	4.5			
	32	660	44.43	5100	0.90	TK	57	YDA 100M4
	37	575	38.49	7850	1.05	TKF	57	YDA 100M4
	39	530	35.70	8180	1.15	TKA	57	YDA 100M4
	47	450	30.28	8250	1.35	TKAF	57	YDA 100M4
	52	405	27.34	8160	1.45	TK	57	YDA 100M4
	59	360	24.05	8030	1.65	TKF	57	YDA 100M4
	62	340	22.71	7970	1.75	TKA	57	YDA 100M4
	73	290	19.34	7760	2.0	TKAF	57	YDA 100M4
	80	260	17.57	7630	2.1			
	93	225	15.22	7430	2.4			
	106	197	13.25	7220	2.6			
	118	178	11.92	6890	2.3			
	125	168	11.26	6810	2.5			
	54	385	25.91	5260	1.05	TK	47	YDA 100M4
	65	325	21.81	5260	1.25	TKF	47	YDA 100M4
	72	290	19.58	5240	1.35	TKA	47	YDA 100M4
						TKAF	47	YDA 100M4
	84	250	16.86	5190	1.50	TK	47	YDA 100M4
	89	235	15.86	5160	1.60	TKF	47	YDA 100M4
	103	205	13.65	5070	1.75	TKA	47	YDA 100M4
	116	182	12.19	4990	1.95	TKAF	47	YDA 100M4
	120	175	11.77	4890	1.60			
	133	157	10.56	4810	1.80			
	155	136	9.10	4690	2.1			
	108	195	13.08	2370	0.85	TK	37	YDA 100M4
	134	156	10.49	2430	1.00	TKF	37	YDA 100M4
	158	133	8.91	2440	1.20	TKA	37	YDA 100M4
	177	119	7.96	2430	1.30	TKAF	37	YDA 100M4
	207	101	6.80	2410	1.50			
	221	95	6.37	2400	1.55			
	263	80	5.36	2350	1.75			
	354	59	3.98	2250	2.1			

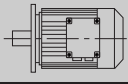


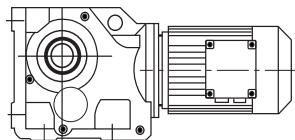
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
3.0	0.50	50800	2818	190000	1.00	TK	187 / TRF97	YDA 100L4
						TKH	187 / TRF97	YDA 100L4
	0.46	57500	3062	190000	0.85	TK	187 / TRF97	YDA 100L4
	0.56	47100	2519	190000	1.05	TKH	187 / TRF97	YDA 100L4
	0.62	42200	2268	190000	1.20			
	0.68	38100	2054	190000	1.30			
	0.77	33600	1821	190000	1.50			
	0.87	29800	1605	190000	1.70			
	1.0	25500	1395	190000	1.95			
	1.2	22100	1196	190000	2.3			
	0.82	31900	1704	150000	1.00	TK	167 / TRF97	YDA 100L4
	0.99	26400	1408	150000	1.20	TKH	167 / TRF97	YDA 100L4
	1.1	24300	1296	150000	1.30			
	1.3	20300	1101	150000	1.55			
	1.5	17500	944	150000	1.85			
	1.7	15400	843	150000	2.1			
	1.9	13900	757	150000	2.3			
	1.1	22900	1229	109300	0.80	TK	157 / TRF97	YDA 100L4
	1.3	20400	1093	110900	0.90	TKF	157 / TRF97	YDA 100L4
	1.5	17600	942	112400	1.05	TKA	157 / TRF97	YDA 100L4
	1.6	15800	854	113200	1.15	TKAF	157 / TRF97	YDA 100L4
	1.9	13800	756	114000	1.30			
	2.5	10500	567	115200	1.70			
	2.8	9310	504	115500	1.95			
	2.6	9980	536	80700	1.30	TK	127 / TRF87	YDA 100L4
	3.0	8760	473	81200	1.50	TKF	127 / TRF87	YDA 100L4
	3.4	7870	418	81500	1.65	TKA	127 / TRF87	YDA 100L4
	3.8	6880	367	81800	1.90	TKAF	127 / TRF87	YDA 100L4
	4.2	6170	330	82000	2.1			
	4.9	5300	287	82200	2.5			
	1.8	14800	790	76300	0.90	TK	127 / TRF77	YDA 100L4
	2.0	13300	704	79000	1.00	TKF	127 / TRF77	YDA 100L4
	2.3	11500	610	80000	1.15	TKA	127 / TRF77	YDA 100L4
	2.6	10400	549	80500	1.25	TKAF	127 / TRF77	YDA 100L4
	2.9	8970	477	81100	1.45			
	3.4	7900	418	81500	1.65			
	3.0	8660	461	65000	0.90	TK	107 / TRF77	YDA 100L4
	3.4	7660	408	65000	1.05	TKF	107 / TRF77	YDA 100L4
	3.9	6870	364	65000	1.15	TKA	107 / TRF77	YDA 100L4
	4.4	6000	318	65000	1.35	TKAF	107 / TRF77	YDA 100L4
	4.9	5400	286	65000	1.50			
	5.6	4730	251	65000	1.70			
	6.3	4170	222	65000	1.90			
	7.1	3690	196	65000	2.2			
	8.1	3300	174	65000	2.2			
	9.1	2920	154	65000	2.5			
	10	2650	140	65000	2.7			
	5.4	4930	258	40000	0.85	TK	97 / TRF57	YDA 100L4
	6.0	4440	232	40000	0.95	TKF	97 / TRF57	YDA 100L4
	7.0	3810	199	40000	1.15	TKA	97 / TRF57	YDA 100L4
						TKAF	97 / TRF57	YDA 100L4
	5.0	5710	143.47*	65000	1.40	TK	107	YDA 132M8
	5.9	4830	121.46	65000	1.65	TKF	107	YDA 132M8
	6.4	4470	112.41*	65000	1.80	TKA	107	YDA 132M8
	7.2	4010	100.75	65000	2.0	TKAF	107	YDA 132M8
7.9	3620	90.96*	65000	2.2				

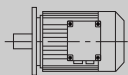
PERFORMANCE PARAMETER



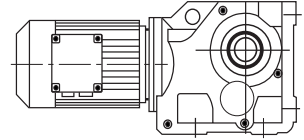
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
3.0	6.5	4370	143.47*	65000	1.85	TK	107	YDA 132S6
	7.7	3700	121.46	65000	2.2	TKF	107	YDA 132S6
	8.4	3430	112.41*	65000	2.3	TKA	107	YDA 132S6
	9.3	3070	100.75	65000	2.6	TKAF	107	YDA 132S6
	9.8	2940	143.47*	65000	2.7	TK	107	YDA 100L4
	12	2490	121.46	65000	3.2	TKF	107	YDA 100L4
						TKA	107	YDA 100L4
						TKAF	107	YDA 100L4
	7.6	3780	123.93*	40000	1.15	TK	97	YDA 132S6
	8.9	3200	105.13	40000	1.35	TKF	97	YDA 132S6
	9.7	2950	96.80	40000	1.45	TKA	97	YDA 132S6
	11	2640	86.52	40000	1.65	TKAF	97	YDA 132S6
	8.0	3600	176.05*	40000	1.20	TK	97	YDA 100L4
	9.1	3140	153.21*	40000	1.35	TKF	97	YDA 100L4
	10	2870	140.28	40000	1.50	TKA	97	YDA 100L4
	11	2540	123.93*	40000	1.70	TKAF	97	YDA 100L4
	13	2150	105.13	40000	2.0	TK	97	YDA 100L4
	14	1980	96.80	40000	2.2	TKF	97	YDA 100L4
	16	1770	86.52	40000	2.4	TKA	97	YDA 100L4
	18	1590	77.89*	40000	2.7	TKAF	97	YDA 100L4
	20	1440	70.54	40000	3.0			
	22	1280	62.55	40000	3.4			
	25	1160	56.55	40000	3.7			
	9.5	3010	147.32*	26900	0.90	TK	87	YDA 100L4
	11	2600	126.91*	27400	1.05	TKF	87	YDA 100L4
	12	2370	115.82	27700	1.15	TKA	87	YDA 100L4
	14	2100	102.71*	28000	1.30	TKAF	87	YDA 100L4
	16	1770	86.34	28300	1.55	TK	87	YDA 100L4
	18	1620	79.34	28400	1.65	TKF	87	YDA 100L4
	20	1440	70.46	28500	1.85	TKA	87	YDA 100L4
	22	1290	63.00*	28600	2.1	TKAF	87	YDA 100L4
	25	1160	56.64	28700	2.3			
	28	1010	49.16	28800	2.7			
	32	900	44.02	28800	2.9			
	38	745	36.52*	28400	3.4			
	16	1820	88.97	13100	0.85	TK	77	YDA 100L4
	18	1600	78.07	15000	0.95	TKF	77	YDA 100L4
	19	1510	73.99	15600	1.00	TKA	77	YDA 100L4
	22	1330	64.75	16800	1.15	TKAF	77	YDA 100L4
	24	1190	58.34	17500	1.30			
	27	1050	51.18	18100	1.50			
	31	920	45.16	18600	1.70	TK	77	YDA 100L4
	35	820	40.04	18900	1.90	TKF	77	YDA 100L4
	40	720	35.20	19200	2.2	TKA	77	YDA 100L4
	45	630	30.89	19400	2.5	TKAF	77	YDA 100L4
	32	910	44.32	9450	0.90	TK	67	YDA 100L4
	36	785	38.39	10600	1.00	TKF	67	YDA 100L4
	39	730	35.62	11100	1.15	TKA	67	YDA 100L4
	46	620	30.22	11800	1.35	TKAF	67	YDA 100L4
	51	560	27.28	12100	1.45			
	58	490	24.00	12500	1.65			
	62	465	22.66	12600	1.70	TK	67	YDA 100L4
	73	395	19.30	12800	1.95	TKF	67	YDA 100L4
	80	360	17.54	13000	2.1	TKA	67	YDA 100L4
	92	310	15.19	13000	2.3	TKAF	67	YDA 100L4

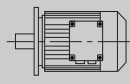


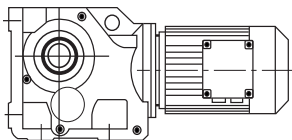
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	f _s			
3.0	106	270	13.22	13000	2.5	TK	67	YDA 100L4
	112	255	12.48	13000	2.1	TKF	67	YDA 100L4
	132	220	10.63	13000	2.3	TKA	67	YDA 100L4
	145	198	9.66	13000	2.4	TKAF	67	YDA 100L4
	46	620	30.28	7180	0.95	TK	57	YDA 100L4
	51	560	27.34	7190	1.05	TKF	57	YDA 100L4
	58	490	24.05	7180	1.20	TKA	57	YDA 100L4
						TKAF	57	YDA 100L4
	62	465	22.71	7160	1.30	TK	57	YDA 100L4
	72	395	19.34	7080	1.45	TKF	57	YDA 100L4
	80	360	17.57	7020	1.55	TKA	57	YDA 100L4
	92	310	15.22	6890	1.70	TKAF	57	YDA 100L4
	106	270	13.25	6750	1.90			
	117	245	11.92	6420	1.70			
	124	230	11.26	6370	1.80			
	146	196	9.59	6200	2.1			
	161	178	8.71	6090	2.2			
	186	154	7.55	5920	2.4			
	213	134	6.57	5750	2.6			
	298	96	4.69	5320	3.1			
	72	400	19.58	4430	1.00	TK	47	YDA 100L4
	83	345	16.86	4490	1.10	TKF	47	YDA 100L4
	88	325	15.86	4500	1.15	TKA	47	YDA 100L4
						TKAF	47	YDA 100L4
	103	280	13.65	4510	1.30	TK	47	YDA 100L4
	115	250	12.19	4490	1.40	TKF	47	YDA 100L4
	119	240	11.77	4370	1.15	TKA	47	YDA 100L4
	133	215	10.56	4350	1.30	TKAF	47	YDA 100L4
	154	186	9.10	4290	1.50			
	164	175	8.56	4270	1.55			
	190	151	7.36	4190	1.65			
	213	135	6.58	4120	1.80			
	241	119	5.81	4030	1.95			
	302	95	4.64	3860	2.2			
	157	182	8.91	2000	0.90	TK	37	YDA 100L4
	176	163	7.96	2040	0.95	TKF	37	YDA 100L4
	206	139	6.80	2080	1.10	TKA	37	YDA 100L4
	220	130	6.37	2080	1.10	TKAF	37	YDA 100L4
	261	110	5.36	2090	1.30			
	352	81	3.98	2050	1.55			
4.0	1.7	20100	835	190000	2.5	TK	187 / TRF107	YDA 112M4
	2.7	12600	520	190000	4.0	TKH	187 / TRF107	YDA 112M4
	0.56	62200	2519	190000	0.80	TK	187 / TRF97	YDA 112M4
	0.63	55900	2268	190000	0.90	TKH	187 / TRF97	YDA 112M4
	0.69	50500	2054	190000	1.00			
	0.78	44600	1821	190000	1.10			
	0.88	39400	1605	190000	1.25			
	1.0	33900	1395	190000	1.50			
	1.2	29300	1196	190000	1.70			
	1.4	25600	1046	190000	1.95			
	1.5	23100	945	190000	2.2			
	1.0	34900	1408	150000	0.90	TK	167 / TRF97	YDA 112M4
	1.1	32100	1296	150000	1.00	TKH	167 / TRF97	YDA 112M4
	1.3	26900	1101	150000	1.20			
	1.5	23200	944	150000	1.40			
	1.7	20500	843	150000	1.55			

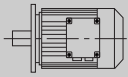
PERFORMANCE PARAMETER



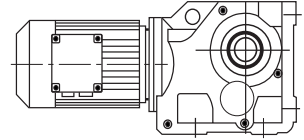
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
4.0	1.9	18500	757	150000	1.75	TK	167 / TRF97	YDA 112M4
	2.2	15500	632	150000	2.1	TKH	167 / TRF97	YDA 112M4
	1.7	21000	854	110600	0.85	TK	157 / TRF97	YDA 112M4
	1.9	18300	756	112000	1.00	TKF	157 / TRF97	YDA 112M4
	2.5	13900	567	114000	1.30	TKA	157 / TRF97	YDA 112M4
	2.8	12300	504	114600	1.45	TKAF	157 / TRF97	YDA 112M4
	3.3	10500	434	115100	1.70			
	2.6	13200	536	79100	1.00	TK	127 / TRF87	YDA 112M4
	3.0	11600	473	79900	1.10	TKF	127 / TRF87	YDA 112M4
	3.4	10400	418	80500	1.25	TKA	127 / TRF87	YDA 112M4
	3.9	9090	367	81100	1.45	TKAF	127 / TRF87	YDA 112M4
	4.3	8160	330	81400	1.60			
	5.0	7020	287	81800	1.85			
	5.6	6210	253	82000	2.1			
	2.3	15200	610	75600	0.85	TK	127 / TRF77	YDA 112M4
	2.6	13700	549	78600	0.95	TKF	127 / TRF77	YDA 112M4
	3.0	11800	477	79800	1.10	TKA	127 / TRF77	YDA 112M4
	3.4	10400	418	80500	1.25	TKAF	127 / TRF77	YDA 112M4
	3.9	9050	364	65000	0.90	TK	107 / TRF77	YDA 112M4
	4.5	7910	318	65000	1.00	TKF	107 / TRF77	YDA 112M4
	5.0	7120	286	65000	1.10	TKA	107 / TRF77	YDA 112M4
	5.7	6240	251	65000	1.30	TKAF	107 / TRF77	YDA 112M4
	6.4	5500	222	65000	1.45			
	7.2	4870	196	65000	1.65			
	8.2	4360	174	65000	1.65			
	9.2	3860	154	65000	1.85			
	10	3500	140	65000	2.1			
	7.1	5020	199	39900	0.85	TK	97 / TRF57	YDA 112M4
						TKF	97 / TRF57	YDA 112M4
						TKA	97 / TRF57	YDA 112M4
						TKAF	97 / TRF57	YDA 112M4
	5.3	7220	136.14	81700	1.80	TK	127	YDA 132ML8
	5.9	6500	122.48	81900	2.0	TKF	127	YDA 132ML8
	6.5	5850	110.18	82100	2.2	TKA	127	YDA 132ML8
						TKAF	127	YDA 132ML8
	6.6	5810	146.07	82100	2.2	TK	127	YDA 132M6
	7.0	5420	136.14	82200	2.4	TKF	127	YDA 132M6
	7.8	4870	122.48	82300	2.7	TKA	127	YDA 132M6
	8.7	4380	110.18	82400	3.0	TKAF	127	YDA 132M6
	6.4	5960	112.41*	65000	1.35	TK	107	YDA 132ML8
	7.2	5340	100.75	65000	1.50	TKF	107	YDA 132ML8
	7.9	4830	90.96*	65000	1.65	TKA	107	YDA 132ML8
	8.7	4380	82.61	65000	1.85	TKAF	107	YDA 132ML8
	6.7	5710	143.47*	65000	1.40	TK	107	YDA 132M6
	7.9	4830	121.46	65000	1.65	TKF	107	YDA 132M6
	8.5	4470	112.41"	65000	1.80	TKA	107	YDA 132M6
	9.5	4010	100.75	65000	2.0	TKAF	107	YDA 132M6
	11	3620	90.96*	65000	2.2			
	9.9	3860	143.47*	65000	2.1	TK	107	YDA 112M4
	12	3270	121.46	65000	2.5	TKF	107	YDA 112M4
	13	3020	112.41*	65000	2.7	TKA	107	YDA 112M4
	14	2710	100.75	65000	3.0	TKAF	107	YDA 112M4
	16	2450	90.96*	65000	3.3			
	17	2220	82.61	65000	3.6			
	19	1970	73.30	65000	4.1			

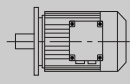


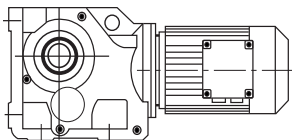
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
4.0 □	9.3 □	4120 □	153.21* □	40000 □	1.05 □	TK □	97 □	YDA 112M4 □
	10 □	3770 □	140.28 □	40000 □	1.15 □	TKF □	97 □	YDA 112M4 □
	11 □	3330 □	123.93* □	40000 □	1.30 □	TKA □	97 □	YDA 112M4 □
						TKAF □	97 □	YDA 112M4 □
	14 □	2830 □	105.13 □	40000 □	1.50 □	TK □	97 □	YDA 112M4 □
	15 □	2600 □	96.80 □	40000 □	1.65 □	TKF □	97 □	YDA 112M4 □
	16 □	2330 □	86.52 □	40000 □	1.85 □	TKA □	97 □	YDA 112M4 □
	18 □	2100 □	77.89* □	40000 □	2.1 □	TKAF □	97 □	YDA 112M4 □
	20 □	1900 □	70.54 □	40000 □	2.3 □			
	12 □	3120 □	115.82 □	26700 □	0.85 □	TK □	87 □	YDA 112M4 □
	14 □	2760 □	102.71* □	27200 □	1.00 □	TKF □	87 □	YDA 112M4 □
	16 □	2320 □	86.34 □	27700 □	1.15 □	TKA □	87 □	YDA 112M4 □
	18 □	2130 □	79.34 □	27900 □	1.25 □	TKAF □	87 □	YDA 112M4 □
	20 □	1900 □	70.46 □	28200 □	1.40 □	TK □	87 □	YDA 112M4 □
	23 □	1690 □	63.00* □	28300 □	1.60 □	TKF □	87 □	YDA 112M4 □
	25 □	1520 □	56.64 □	28500 □	1.75 □	TKA □	87 □	YDA 112M4 □
	29 □	1320 □	49.16 □	28600 □	2.0 □	TKAF □	87 □	YDA 112M4 □
	32 □	1180 □	44.02 □	28300 □	2.2 □			
	39 □	980 □	36.52* □	27300 □	2.5 □			
	22 □	1740 □	64.75 □	13900 □	0.90 □	TK □	77 □	YDA 112M4 □
	24 □	1570 □	58.34 □	15200 □	1.00 □	TKF □	77 □	YDA 112M4 □
	28 □	1380 □	51.18 □	16500 □	1.15 □	TKA □	77 □	YDA 112M4 □
	31 □	1210 □	45.16 □	17400 □	1.30 □	TKAF □	77 □	YDA 112M4 □
	35 □	1080 □	40.04 □	18000 □	1.45 □			
	37 □	1030 □	38.39 □	18200 □	1.45 □			
	40 □	950 □	35.20 □	18500 □	1.65 □	TK □	77 □	YDA 112M4 □
	46 □	830 □	30.89 □	18900 □	1.85 □	TKF □	77 □	YDA 112M4 □
	49 □	785 □	29.27 □	19000 □	1.95 □	TKA □	77 □	YDA 112M4 □
	55 □	690 □	25.62 □	19300 □	2.3 □	TKAF □	77 □	YDA 112M4 □
	62 □	620 □	23.08 □	19500 □	2.5 □			
	70 □	545 □	20.25 □	19600 □	2.8 □			
	47 □	810 □	30.22 □	10400 □	1.00 □	TK □	67 □	YDA 112M4 □
	52 □	735 □	27.28 □	11000 □	1.10 □	TKF □	67 □	YDA 112M4 □
	59 □	645 □	24.00 □	11600 □	1.25 □	TKA □	67 □	YDA 112M4 □
	63 □	610 □	22.66 □	11800 □	1.30 □	TKAF □	67 □	YDA 112M4 □
	74 □	520 □	19.30 □	12300 □	1.45 □	TK □	67 □	YDA 112M4 □
	81 □	470 □	17.54 □	12500 □	1.55 □	TKF □	67 □	YDA 112M4 □
	94 □	410 □	15.19 □	12800 □	1.70 □	TKA □	67 □	YDA 112M4 □
	107 □	355 □	13.22 □	13000 □	1.90 □	TKAF □	67 □	YDA 112M4 □
	114 □	335 □	12.48 □	13000 □	1.60 □			
	134 □	285 □	10.63 □	13000 □	1.75 □			
	147 □	260 □	9.66 □	12900 □	1.85 □			
	170 □	225 □	8.37 □	12500 □	1.95 □			
	195 □	196 □	7.28 □	12100 □	2.1 □			
	273 □	140 □	5.20 □	11200 □	2.5 □			
	59 □	645 □	24.05 □	6120 □	0.95 □	TK □	57 □	YDA 112M4 □
	63 □	610 □	22.71 □	6160 □	1.00 □	TKF □	57 □	YDA 112M4 □
	73 □	520 □	19.34 □	6220 □	1.10 □	TKA □	57 □	YDA 112M4 □
	81 □	475 □	17.57 □	6230 □	1.15 □	TKAF □	57 □	YDA 112M4 □
	93 □	410 □	15.22 □	6210 □	1.30 □			
	107 □	355 □	13.25 □	6150 □	1.45 □			
	119 □	320 □	11.92 □	5810 □	1.30 □			
	126 □	305 □	11.26 □	5790 □	1.35 □			
	148 □	260 □	9.59 □	5700 □	1.55 □			

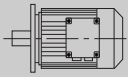
PERFORMANCE PARAMETER



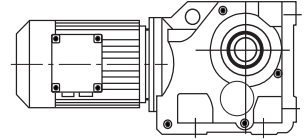
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
4.0	163	235	8.71	5640	1.65	TK	57	YDA 112M4
	188	205	7.55	5530	1.80	TKF	57	YDA 112M4
	216	177	6.57	5400	1.95	TKA	57	YDA 112M4
	303	126	4.69	5070	2.4	TKAF	57	YDA 112M4
5.5	0.79	61300	1821	190000	0.80	TK	187 / TRF97	YDA 132S4
	0.89	54200	1605	190000	0.90	TKH	187 / TRF97	YDA 132S4
	1.0	46700	1395	190000	1.05			
	1.2	40300	1196	190000	1.25			
	1.4	35200	1046	190000	1.40			
	1.5	31700	945	190000	1.60			
	1.9	24800	738	190000	2.0			
	2.3	20800	621	190000	2.4			
	1.3	37100	1101	150000	0.85	TK	167 / TRF97	YDA 132S4
	1.5	31900	944	150000	1.00	TKH	167 / TRF97	YDA 132S4
	1.7	28200	843	150000	1.15			
	1.9	25400	757	150000	1.25			
	2.3	21300	632	150000	1.50			
	2.6	18700	561	150000	1.70			
	3.0	16200	481	150000	2.0			
	3.4	14100	423	150000	2.3			
	2.2	22000	661	109900	0.80	TK	157 / TRF97	YDA 132S4
	2.5	19100	567	111600	0.95	TKF	157 / TRF97	YDA 132S4
	2.8	17000	504	112700	1.05	TKA	157 / TRF97	YDA 132S4
	3.3	14500	434	113800	1.25	TKAF	157 / TRF97	YDA 132S4
	3.8	12600	379	114500	1.45			
	4.3	11100	333	115000	1.60			
	3.4	14300	418	77400	0.90	TK	127 / TRF87	YDA 132S4
	3.9	12500	367	79500	1.05	TKF	127 / TRF87	YDA 132S4
	4.3	11200	330	80100	1.15	TKA	127 / TRF87	YDA 132S4
	5.0	9650	287	80800	1.35	TKAF	127 / TRF87	YDA 132S4
	5.6	8540	253	81300	1.50			
	6.7	7170	213	81700	1.80			
	7.1	6830	200	81800	1.75			
	8.6	5660	166	82100	2.1			
	9.8	4990	147	82300	2.4			
	6.5	7540	222	65000	1.05	TK	107 / TRF77	YDA 132S4
	7.3	6680	196	65000	1.20	TKF	107 / TRF77	YDA 132S4
	8.2	5970	174	65000	1.20	TKA	107 / TRF77	YDA 132S4
	9.3	5280	154	65000	1.35	TKAF	107 / TRF77	YDA 132S4
	10	4800	140	65000	1.50			
	4.7	11100	150.41	115000	1.60	TK	157	YDA 160M8
	5.8	9050	122.39	115500	2.0	TKF	157	YDA 160M8
	7.1	7410	100.22	115900	2.4	TKA	157	YDA 160M8
	7.8	6780	91.65	116000	2.7	TKAF	157	YDA 160M8
	5.2	10100	136.14	80700	1.30	TK	127	YDA 160M8
	5.8	9060	122.48	81100	1.45	TKF	127	YDA 160M8
	6.4	8150	110.18	81400	1.60	TKA	127	YDA 160M8
	7.9	6650	89.89	81900	1.95	TKAF	127	YDA 160M8
	7.0	7450	136.14	81600	1.75	TK	127	YDA 132ML6
	7.8	6700	122.48	81900	1.95	TKF	127	YDA 132ML6
	8.7	6030	110.18	82100	2.2	TKA	127	YDA 132ML6
	11	4920	89.89	82300	2.6	TKAF	127	YDA 132ML6
	8.5	6150	112.41	65000	1.30	TK	107	YDA 132ML6
	9.5	5510	100.75	65000	1.45	TKF	107	YDA 132ML6
	11	4980	90.96*	65000	1.60	TKA	107	YDA 132ML6
	12	4520	82.61	65000	1.75	TKAF	107	YDA 132ML6

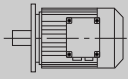


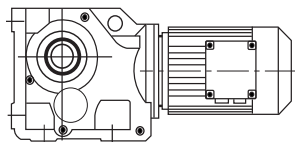
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs		
5.5 □	10 □	5270 □	143.47* □	65000 □	1.50 □	TK □ 107 □	YDA 132S4 □
	12 □	4460 □	121.46 □	65000 □	1.80 □	TKF □ 107 □	YDA 132S4 □
	13 □	4130 □	112.41* □	65000 □	1.95 □	TKA □ 107 □	YDA 132S4 □
	14 □	3700 □	100.75 □	65000 □	2.2 □	TKAF □ 107 □	YDA 132S4 □
	16 □	3340 □	90.96* □	65000 □	2.4 □		
	17 □	3030 □	82.61 □	65000 □	2.6 □		
	12 □	4550 □	123.93* □	40000 □	0.95 □	TK □ 97 □	YDA 132S4 □
	14 □	3860 □	105.13 □	40000 □	1.10 □	TKF □ 97 □	YDA 132S4 □
	15 □	3560 □	96.80 □	40000 □	1.20 □	TKA □ 97 □	YDA 132S4 □
	17 □	3180 □	86.52 □	40000 □	1.35 □	TKAF □ 97 □	YDA 132S4 □
	18 □	2860 □	77.89* □	40000 □	1.50 □	TK □ 97 □	YDA 132S4 □
	20 □	2590 □	70.54 □	40000 □	1.65 □	TKF □ 97 □	YDA 132S4 □
	23 □	2300 □	62.55 □	40000 □	1.85 □	TKA □ 97 □	YDA 132S4 □
	25 □	2080 □	56.55 □	39700 □	2.1 □	TKAF □ 97 □	YDA 132S4 □
	30 □	1760 □	47.93 □	38600 □	2.4 □		
	17 □	3170 □	86.34 □	26600 □	0.85 □	TK □ 87 □	YDA 132S4 □
	18 □	2910 □	79.34 □	27000 □	0.95 □	TKF □ 87 □	YDA 132S4 □
	20 □	2590 □	70.46 □	27400 □	1.05 □	TKA □ 87 □	YDA 132S4 □
	23 □	2310 □	63.00* □	27500 □	1.15 □	TKAF □ 87 □	YDA 132S4 □
	25 □	2080 □	56.64 □	27300 □	1.30 □		
	29 □	1810 □	49.16 □	26900 □	1.50 □	TK □ 87 □	YDA 132S4 □
	32 □	1620 □	44.02 □	26500 □	1.60 □	TKF □ 87 □	YDA 132S4 □
	39 □	1340 □	36.52* □	25800 □	1.85 □	TKA □ 87 □	YDA 132S4 □
	46 □	1150 □	31.39 □	25200 □	2.3 □	TKAF □ 87 □	YDA 132S4 □
	51 □	1020 □	27.88 □	24700 □	2.5 □		
	32 □	1660 □	45.16 □	14600 □	0.95 □	TK □ 77 □	YDA 132S4 □
	36 □	1470 □	40.04 □	15900 □	1.05 □	TKF □ 77 □	YDA 132S4 □
	46 □	1130 □	30.89 □	17800 □	1.35 □	TKA □ 77 □	YDA 132S4 □
	49 □	1070 □	29.27 □	18000 □	1.45 □	TKAF □ 77 □	YDA 132S4 □
	56 □	940 □	25.62 □	18500 □	1.65 □		
	62 □	850 □	23.08 □	18800 □	1.85 □	TK □ 77 □	YDA 132S4 □
	71 □	745 □	20.25 □	19100 □	2.0 □	TKF □ 77 □	YDA 132S4 □
	80 □	655 □	17.87 □	19400 □	2.2 □	TKA □ 77 □	YDA 132S4 □
	90 □	580 □	15.84 □	19200 □	2.4 □	TKAF □ 77 □	YDA 132S4 □
	106 □	495 □	13.52 □	18600 □	2.7 □		
	116 □	455 □	12.36 □	17900 □	2.2 □		
	132 □	400 □	10.84 □	17400 □	2.5 □		
	60 □	880 □	24.00 □	9720 □	0.90 □	TK □ 67 □	YDA 132S4 □
	63 □	830 □	22.66 □	10200 □	0.95 □	TKF □ 67 □	YDA 132S4 □
	74 □	710 □	19.30 □	11200 □	1.05 □	TKA □ 67 □	YDA 132S4 □
	82 □	645 □	17.54 □	11600 □	1.15 □	TKAF □ 67 □	YDA 132S4 □
	94 □	560 □	15.19 □	12100 □	1.25 □		
	108 □	485 □	13.22 □	12500 □	1.40 □		
	115 □	460 □	12.48 □	12600 □	1.15 □	TK □ 67 □	YDA 132S4 □
	135 □	390 □	10.63 □	12400 □	1.30 □	TKF □ 67 □	YDA 132S4 □
	148 □	355 □	9.66 □	12200 □	1.35 □	TKA □ 67 □	YDA 132S4 □
	171 □	305 □	8.37 □	11900 □	1.45 □	TKAF □ 67 □	YDA 132S4 □
	196 □	265 □	7.28 □	11600 □	1.55 □		
	275 □	191 □	5.20 □	10800 □	1.85 □		
7.5 □	1.7 □	38200 □	835 □	190000 □	1.30 □	TK □ 187 / TRF107 □	YDA 132M4 □
	2.0 □	33200 □	729 □	190000 □	1.50 □	TKH □ 187 / TRF107 □	YDA 132M4 □
	2.3 □	28300 □	622 □	190000 □	1.75 □		
	1.2 □	55200 □	1196 □	190000 □	0.90 □	TK □ 187 / TRF97 □	YDA 132M4 □
	1.4 □	48200 □	1046 □	190000 □	1.05 □	TKH □ 187 / TRF97 □	YDA 132M4 □
	1.5 □	43500 □	945 □	190000 □	1.15 □		
	1.9 □	34000 □	738 □	190000 □	1.45 □		

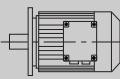
PERFORMANCE PARAMETER



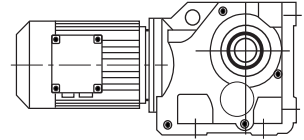
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
7.5□	2.3□	28600□	621□	190000□	1.75□	TK□	187 / TRF97□	YDA 132M4□
	2.7□	24200□	527□	190000□	2.1□	TKH□	187 / TRF97□	YDA 132M4□
	1.7□	38700□	843□	150000□	0.85□	TK□	167 / TRF97□	YDA 132M4□
	1.9□	34900□	757□	150000□	0.90□	TKH□	167 / TRF97□	YDA 132M4□
	2.3□	29200□	632□	150000□	1.10□			
	2.6□	25600□	561□	150000□	1.25□			
	3.0□	22200□	481□	150000□	1.45□			
	3.4□	19400□	423□	150000□	1.65□			
	3.9□	16900□	369□	150000□	1.90□			
	3.3□	19900□	434□	111200□	0.90□	TK□	157 / TRF97□	YDA 132M4□
	3.8□	17400□	379□	112500□	1.05□	TKF□	157 / TRF97□	YDA 132M4□
	4.3□	15300□	333□	113500□	1.20□	TKA□	157 / TRF97□	YDA 132M4□
	4.9□	13300□	291□	114200□	1.35□	TKAF□	157 / TRF97□	YDA 132M4□
	4.3□	15300□	330□	75300□	0.85□	TK□	127 / TRF87□	YDA 132M4□
	5.0□	13200□	287□	79100□	1.00□	TKF□	127 / TRF87□	YDA 132M4□
	5.6□	11700□	253□	79900□	1.10□	TKA□	127 / TRF87□	YDA 132M4□
	6.7□	9830□	213□	80800□	1.30□	TKAF□	127 / TRF87□	YDA 132M4□
	7.1□	9360□	200□	80900□	1.30□			
	8.6□	7750□	166□	81500□	1.55□			
	9.8□	6840□	147□	81800□	1.75□			
	4.4□	16400□	164.50□	150000□	1.95□	TK□	167□	YDA 160L8□
	5.3□	13400□	134.99□	150000□	2.4□	TKH□	167□	YDA 160L8□
	5.8□	12300□	164.50□	150000□	2.6□	TK□	167□	YDA 160M6□
	7.1□	10100□	134.99□	150000□	3.2□	TKH□	167□	YDA 160M6□
	6.4□	11200□	150.41□	114900□	1.60□	TK□	157□	YDA 160M6□
	7.8□	9130□	122.39□	115500□	1.95□	TKF□	157□	YDA 160M6□
	9.6□	7480□	100.22□	115900□	2.4□	TKA□	157□	YDA 160M6□
	10□	6840□	91.65□	116000□	2.6□	TKAF□	157□	YDA 160M6□
	12□	5950□	79.75□	116200□	3.0□			
	7.0□	10200□	136.14□	80600□	1.30□	TK□	127□	YDA 160M6□
	7.8□	9140□	122.48□	81000□	1.40□	TKF□	127□	YDA 160M6□
	8.7□	8220□	110.18□	81400□	1.60□	TKA□	127□	YDA 160M6□
	11□	6710□	89.89□	81900□	1.95□	TKAF□	127□	YDA 160M6□
	9.8□	7320□	146.07□	81700□	1.80□	TK□	127□	YDA 132M4□
	11□	6820□	136.14□	81800□	1.90□	TKF□	127□	YDA 132M4□
	12□	6130□	122.48□	82000□	2.1□	TKA□	127□	YDA 132M4□
	13□	5520□	110.18□	82200□	2.4□	TKAF□	127□	YDA 132M4□
	16□	4500□	89.89□	82400□	2.9□			
	17□	4110□	81.98□	82500□	3.2□			
	20□	3550□	70.95*□	82600□	3.7□			
	10□	7190□	143.47*□	65000□	1.10□	TK□	107□	YDA 132M4□
	12□	6080□	121.46□	65000□	1.30□	TKF□	107□	YDA 132M4□
	13□	5630□	112.41*□	65000□	1.40□	TKA□	107□	YDA 132M4□
						TKAF□	107□	YDA 132M4□
	14□	5050□	100.75□	65000□	1.60□	TK□	107□	YDA 132M4□
	16□	4560□	90.96*□	64200□	1.75□	TKF□	107□	YDA 132M4□
	17□	4140□	82.61□	63200□	1.95□	TKA□	107□	YDA 132M4□
	20□	3670□	73.30□	61900□	2.2□	TKAF□	107□	YDA 132M4□
	22□	3330□	66.52*□	60900□	2.4□			
	25□	2860□	57.17*□	59100□	2.8□			
	29□	2500□	49.90□	57500□	3.1□			
	34□	2120□	42.33*□	55500□	3.5□			
	39□	1850□	37.00*□	53800□	3.9□			

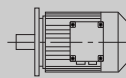


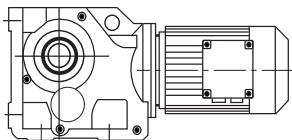
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
7.5□	15□	4850□	96.80□	38300□	0.90□	TK□	97□	YDA 132M4□
	17□	4330□	86.52□	38300□	1.00□	TKF□	97□	YDA 132M4□
	18□	3900□	77.89*□	38100□	1.10□	TKA□	97□	YDA 132M4□
	20□	3530□	70.54□	37900□	1.20□	TKAF□	97□	YDA 132M4□
	23□	3130□	62.55□	37500□	1.35□			
	25□	2830□	56.55□	37100□	1.50□	TK□	97□	YDA 132M4□
	30□	2400□	47.93*□	36400□	1.80□	TKF□	97□	YDA 132M4□
	34□	2100□	41.87□	35600□	2.1□	TKA□	97□	YDA 132M4□
	37□	1920□	38.30□	35100□	2.2□	TKAF□	97□	YDA 132M4□
	42□	1710□	34.23□	34400□	2.5□			
	23□	3160□	63.00"□	24100□	0.85□	TK□	87□	YDA 132M4□
	25□	2840□	56.64□	24200□	0.95□	TKF□	87□	YDA 132M4□
	29□	2460□	49.16□	24200□	1.10□	TKA□	87□	YDA 132M4□
	32□	2200□	44.02□	24200□	1.20□	TKAF□	87□	YDA 132M4□
	39□	1830□	36.52*□	23900□	1.35□			
	46□	1570□	31.39□	23500□	1.70□	TK□	87□	YDA 132M4□
	51□	1400□	27.88□	23200□	1.85□	TKF□	87□	YDA 132M4□
	57□	1250□	24.92□	22800□	2.0□	TKA□	87□	YDA 132M4□
	64□	1120□	22.41□	22500□	2.1□	TKAF□	87□	YDA 132M4□
	74□	970□	19.45□	21900□	2.4□			
	82□	870□	17.42□	21500□	2.5□			
	89□	800□	16.00□	20600□	2.3□			
	99□	725□	14.45□	20700□	2.9□			
	46□	1550□	30.89□	15400□	1.00□	TK□	77□	YDA 132M4□
	49□	1470□	29.27□	16000□	1.05□	TKF□	77□	YDA 132M4□
	56□	1280□	25.62□	17000□	1.20□	TKA□	77□	YDA 132M4□
	62□	1160□	23.08□	17700□	1.35□	TKAF□	77□	YDA 132M4□
	71□	1010□	20.25□	18300□	1.50□			
	80□	890□	17.87□	18600□	1.60□	TK□	77□	YDA 132M4□
	90□	795□	15.84□	18200□	1.75□	TKF□	77□	YDA 132M4□
	106□	675□	13.52□	17800□	2.0□	TKA□	77□	YDA 132M4□
	116□	620□	12.36□	17000□	1.60□	TKAF□	77□	YDA 132M4□
	132□	545□	10.84□	16700□	1.80□			
	150□	480□	9.56□	16300□	1.95□			
	169□	425□	8.48□	15900□	2.1□			
	198□	365□	7.24□	15400□	2.3□			
9.2□	1.7□	46700□	835□	190000□	1.05□	TK□	187 / TRF107□	YDA 132ML4□
	2.0□	40600□	729□	190000□	1.25□	TKH□	187 / TRF107□	YDA 132ML4□
	2.3□	34600□	622□	190000□	1.45□			
	2.8□	29400□	520□	190000□	1.70□			
	3.2□	25600□	454□	190000□	1.95□			
	1.4□	58900□	1046□	190000□	0.85□	TK□	187 / TRF97□	YDA 132ML4□
	1.5□	53200□	945□	190000□	0.95□	TKH□	187 / TRF97□	YDA 132ML4□
	1.9□	41600□	738□	190000□	1.20□			
	2.3□	34900□	621□	190000□	1.45□			
	2.7□	29500□	527□	190000□	1.70□			
	4.5□	18000□	318□	150000□	1.80□	TK□	167 / TRF107□	YDA 132ML4□
	5.2□	15600□	278□	150000□	2.1□	TKH□	167 / TRF107□	YDA 132ML4□
	5.9□	13500□	244□	150000□	2.4□			
	6.8□	11800□	213□	150000□	2.7□			
	7.0□	11500□	206□	150000□	2.8□			
	2.3□	35600□	632□	150000□	0.90□	TK□	167 / TRF97□	YDA 132ML4□
	2.6□	31400□	561□	150000□	1.00□	TKH□	167 / TRF97□	YDA 132ML4□
	3.0□	27100□	481□	150000□	1.20□			
	3.4□	23700□	423□	150000□	1.35□			
	3.9□	20700□	369□	150000□	1.55□			

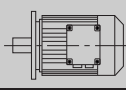
PERFORMANCE PARAMETER



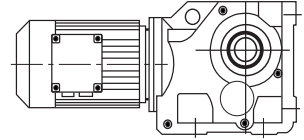
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
9.2	3.7	21300	385	110400	0.85	TK	157 / TRF107	YDA 132ML4
	4.4	17900	325	112300	1.00	TKF	157 / TRF107	YDA 132ML4
	4.8	16600	299	112800	1.10	TKA	157 / TRF107	YDA 132ML4
	5.7	14100	253	114000	1.30	TKAF	157 / TRF107	YDA 132ML4
	6.2	12600	230	114500	1.40			
	3.8	21200	379	110400	0.85	TK	157 / TRF97	YDA 132ML4
	4.3	18700	333	111800	0.95	TKF	157 / TRF97	YDA 132ML4
	5.0	16300	291	113000	1.10	TKA	157 / TRF97	YDA 132ML4
						TKAF	157 / TRF97	YDA 132ML4
	5.7	14300	253	77400	0.90	TK	127 / TRF87	YDA 132ML4
	6.8	12000	213	79700	1.10	TKF	127 / TRF87	YDA 132ML4
	7.2	11400	200	80000	1.05	TKA	127 / TRF87	YDA 132ML4
	8.7	9460	166	80900	1.25	TKAF	127 / TRF87	YDA 132ML4
	9.8	8350	147	81300	1.45			
	11	8310	136.14	81300	1.55	TK	127	YDA 132ML4
	12	7470	122.48	81600	1.75	TKF	127	YDA 132ML4
	13	6720	110.18	81900	1.95	TKA	127	YDA 132ML4
	16	5480	89.89	82200	2.4	TKAF	127	YDA 132ML4
	18	5000	81.98	82300	2.6			
	13	6860	112.41*	62400	1.15	TK	107	YDA 132ML4
	14	6150	100.75	61800	1.30	TKF	107	YDA 132ML4
	16	5550	90.96*	61100	1.45	TKA	107	YDA 132ML4
						TKAF	107	YDA 132ML4
	17	5040	82.61	60400	1.60	TK	107	YDA 132ML4
	20	4470	73.30	59400	1.80	TKF	107	YDA 132ML4
	22	4060	66.52*	58600	1.95	TKA	107	YDA 132ML4
	25	3490	57.17*	57100	2.3	TKAF	107	YDA 132ML4
	29	3040	49.90	55700	2.6			
	34	2580	42.33*	54000	2.9			
	18	4750	77.89*	35100	0.90	TK	97	YDA 132ML4
	20	4300	70.54	35100	1.00	TKF	97	YDA 132ML4
	23	3820	62.55	35100	1.15	TKA	97	YDA 132ML4
	25	3450	56.55	34900	1.25	TKAF	97	YDA 132ML4
	30	2920	47.93*	34400	1.45	TK	97	YDA 132ML4
	34	2550	41.87	34000	1.70	TKF	97	YDA 132ML4
	38	2340	38.30	33600	1.85	TKA	97	YDA 132ML4
	42	2090	34.23	33100	2.1	TKAF	97	YDA 132ML4
	47	1880	30.82	32500	2.3			
	52	1700	27.91	32000	2.5			
	58	1510	24.75	31300	2.9			
	29	3000	49.16	22000	0.90	TK	87	YDA 132ML4
	33	2690	44.02	22200	0.95	TKF	87	YDA 132ML4
	39	2230	36.52*	22200	1.10	TKA	87	YDA 132ML4
	46	1910	31.39	22100	1.40	TKAF	87	YDA 132ML4
	52	1700	27.88	21900	1.55	TK	87	YDA 132ML4
	58	1520	24.92	21700	1.65	TKF	87	YDA 132ML4
	64	1370	22.41	21400	1.70	TKA	87	YDA 132ML4
	74	1190	19.45	21000	1.95	TKAF	87	YDA 132ML4
	83	1060	17.42	20700	2.1			
	90	980	16.00	19700	1.85			
	100	880	14.45	20000	2.4			
	115	765	12.56	19500	2.6			
	129	680	11.17	18600	2.2			
	144	610	10.00	18200	2.5			

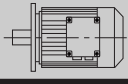


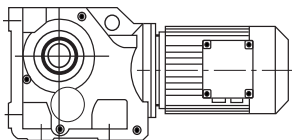
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
9.2□	62□	1410□	23.08□	16300□	1.10□	TK□	77□	YDA 132ML4□
	71□	1240□	20.25□	17300□	1.20□	TKF□	77□	YDA 132ML4□
	81□	1090□	17.87□	17600□	1.35□	TKA□	77□	YDA 132ML4□
	91□	970□	15.84□	17400□	1.45□	TKAF □	77□	YDA 132ML4□
	107□	820□	13.52□	17000□	1.60□	TK□	77□	YDA 132ML4□
	117□	755□	12.36□	16300□	1.35□	TKF□	77□	YDA 132ML4□
	133□	660□	10.84□	16000□	1.50□	TKA□	77□	YDA 132ML4□
	151□	585□	9.56□	15700□	1.60□	TKAF □	77□	YDA 132ML4□
	170□	515□	8.48□	15400□	1.70□			
199□	440□	7.24□	14900□	1.85□				
11.0□	1.7□	56000□	835□	190000□	0.90□	TK□	187 / TRF107□	YDT 160M4□
	2.0□	48700□	729□	190000□	1.05□	TKH□	187 / TRF107□	YDT 160M4□
	2.3□	41600□	622□	190000□	1.20□			
	2.8□	35200□	520□	190000□	1.40□			
	3.2□	30700□	454□	190000□	1.65□			
	4.0□	23700□	355□	190000□	2.1□			
	1.9□	49800□	738□	190000□	1.00□	TK□	187 / TRF97□	YDT 160M4□
	2.3□	41800□	621□	190000□	1.20□	TKH□	187 / TRF97□	YDT 160M4□
	2.7□	35400□	527□	190000□	1.40□			
	4.5□	21500□	318□	150000□	1.50□	TK□	167 / TRF107□	YDT 160M4□
	5.2□	18800□	278□	150000□	1.70□	TKH□	167 / TRF107□	YDT 160M4□
	5.9□	16200□	244□	150000□	1.95□			
	6.8□	14200□	213□	150000□	2.3□			
	7.0□	13800□	206□	150000□	2.3□			
	2.6□	37600□	561□	150000□	0.85□	TK□	167 / TRF97□	YDT 160M4□
	3.0□	32400□	481□	150000□	1.00□	TKH□	167 / TRF97□	YDT 160M4□
	3.4□	28400□	423□	150000□	1.15□			
	3.9□	24800□	369□	150000□	1.30□			
	4.3□	22400□	333□	109700□	0.80□	TK□	157 / TRF97□	YDT 160M4□
	5.0□	19500□	291□	111400□	0.90□	TKF□	157 / TRF97□	YDT 160M4□
						TKA□	157 / TRF97□	YDT 160M4□
						TKAF □	157 / TRF97□	YDT 160M4□
	6.8□	14400□	213□	77200□	0.90□	TK□	127 / TRF87□	YDT 160M4□
	7.2□	13700□	200□	78600□	0.90□	TKF□	127 / TRF87□	YDT 160M4□
	8.7□	11300□	166□	80100□	1.05□	TKA□	127 / TRF87□	YDT 160M4□
	9.8□	10000□	147□	80700□	1.20□	TKAF □	127 / TRF87□	YDT 160M4□
	5.3□	19700□	134.99□	150000□	1.60□	TK□	167□	YDT 180L8□
	6.6□	16000□	109.83□	150000□	2.0□	TKH□	167□	YDT 180L8□
	5.8□	18000□	164.50□	150000□	1.80□	TK□	167□	YDT 160L6□
	7.1□	14800□	134.99□	150000□	2.2□	TKH□	167□	YDT 160L6□
	8.8□	12000□	164.50□	150000□	2.7□	TK□	167□	YDT 160M4□
	11□	9850□	134.99□	150000□	3.3□	TKH□	167□	YDT 160M4□
	5.9□	17900□	122.39□	112300□	1.00□	TK□	157□	YDA 180L8□
	7.2□	14600□	100.22□	113700□	1.25□	TKF□	157□	YDA 180L8□
	7.9□	13400□	91.65□	114200□	1.35□	TKA□	157□	YDA 180L8□
	9.0□	11600□	79.75□	114800□	1.55□	TKAF □	157□	YDA 180L8□
	6.4□	16500□	150.41□	112900□	1.10□	TK□	157□	YDT 160L6□
	7.8□	13400□	122.39□	114200□	1.35□	TKF□	157□	YDT 160L6□
	9.6□	11000□	100.22□	115000□	1.65□	TKA□	157□	YDT 160L6□
	10□	10000□	91.65□	115300□	1.80□	TKAF □	157□	YDT 160L6□
	12□	8730□	79.75□	115600□	2.1□			
	9.6□	11000□	150.41□	115000□	1.65□	TK□	157□	YDT 160M4□
	12□	8930□	122.39□	115600□	2.0□	TKF□	157□	YDT 160M4□
	14□	7310□	100.22□	115900□	2.5□	TKA□	157□	YDT 160M4□
	16□	6690□	91.65□	116000□	2.7□	TKAF	157	YDT 160M4□

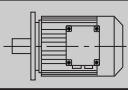
PERFORMANCE PARAMETER



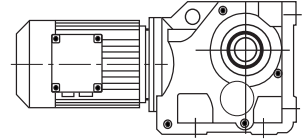
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs		
11.0	11	9930	136.14	80700	1.30	TK 127	YDT160M4
	12	8930	122.48	81100	1.45	TKF 127	YDT 160M4
	13	8040	110.18	81400	1.60	TKA 127	YDT 160M4
	16	6560	89.89	81900	2.0	TKAF 127	YDT 160M4
	18	5980	81.98	82100	2.2		
	20	5180	70.95*	82300	2.5		
	13	8200	112.41*	58400	1.00	TK 107	YDT 160M4
	14	7350	100.75	58300	1.10	TKF 107	YDT 160M4
	16	6630	90.96*	58000	1.20	TKA 107	YDT 160M4
	17	6030	82.61	57500	1.35	TKAF 107	YDT 160M4
	20	5350	73.30	56900	1.50	TK 107	YDT 160M4
	22	4850	66.52*	56200	1.65	TKF 107	YDT 160M4
	25	4170	57.17*	55100	1.90	TKA 107	YDT 160M4
	29	3640	49.90	54000	2.2	TKAF 107	YDT 160M4
	34	3090	42.33*	52500	2.4		
	39	2700	37.00*	51200	2.7		
	20	5150	70.54	32200	0.85	TK 97	YDT 160M4
	23	4560	62.55	32500	0.95	TKF 97	YDT 160M4
	25	4130	56.55	32500	1.05	TKA 97	YDT 160M4
	30	3500	47.93*	32500	1.25	TKAF 97	YDT 160M4
	34	3050	41.87	32200	1.40	TK 97	YDT 160M4
	38	2790	38.30	32000	1.55	TKF 97	YDT 160M4
	42	2500	34.23	31600	1.70	TKA 97	YDT 160M4
	47	2250	30.82	31300	1.90	TKAF 97	YDT 160M4
	52	2040	27.91	30800	2.1		
	58	1800	24.75	30300	2.4		
	64	1630	22.37	29800	2.6		
	33	3210	44.02	20000	0.80	TK 87	YDT 160M4
	39	2660	36.52*	20400	0.95	TKF 87	YDT 160M4
	46	2290	31.39	20600	1.20	TKA 87	YDT 160M4
	52	2030	27.88	20600	1.30	TKAF 87	YDT 160M4
	58	1820	24.92	20500	1.40		
	64	1630	22.41	20300	1.40	TK 87	YDT 160M4
	74	1420	19.45	20100	1.60	TKF 87	YDT 160M4
	83	1270	17.42	19800	1.75	TKA 87	YDT 160M4
	90	1170	16.00	18800	1.55	TKAF 87	YDT 160M4
	100	1050	14.45	19400	2.0		
	115	920	12.56	18900	2.2		
	129	810	11.17	18000	1.85		
	144	730	10.00	17700	2.1		
	174	605	8.29	17100	2.3		
	200	525	7.21	16700	2.5		
	62	1680	23.08	14400	0.90	TK 77	YDT 160M4
	71	1480	20.25	15900	1.00	TKF 77	YDT 160M4
	81	1300	17.87	16600	1.10	TKA 77	YDT 160M4
	91	1160	15.84	16500	1.20	TKAF 77	YDT 160M4
	107	990	13.52	16300	1.35		
	117	900	12.36	15500	1.10		
	133	790	10.84	15300	1.25		
	151	700	9.56	15100	1.35		
	170	620	8.48	14800	1.45		
	199	530	7.24	14500	1.55		
15.0	2.4	56200	622	190000	0.90	TK 187 / TRF107	YDT 160L4
	2.8	47600	520	190000	1.05	TKH 187 / TRF107	YDT 160L4
	3.2	41400	454	190000	1.20		
	4.1	32000	355	190000	1.55		
	5.6	23800	261	190000	2.1		

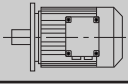


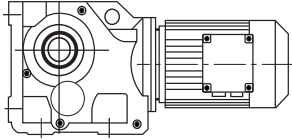
PERFORMANCE PARAMETER

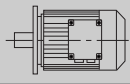
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	f _s			
15.0	4.6	29100	318	150000	1.10	TK	167 / TRF107	YDT 160L4
	5.3	25300	278	150000	1.25	TKH	167 / TRF107	YDT 160L4
	6.0	22000	244	150000	1.45			
	6.9	19200	213	150000	1.65			
	7.1	18700	206	150000	1.70			
	8.1	16100	180	150000	2.0			
	9.2	14600	160	150000	2.2			
	6.3	20600	230	110800	0.85	TK	157 / TRF107	YDT 160L4
	6.9	19400	213	111500	0.95	TKF	157 / TRF107	YDT 160L4
	7.8	16700	187	112800	1.05	TKA	157 / TRF107	YDT 160L4
	9.3	14200	157	113900	1.25	TKAF	157 / TRF107	YDT 160L4
	12	11100	122	115000	1.60			
	14	9710	107	115400	1.85			
	5.4	26600	179.86	190000	1.90	TK	187	YDT 180L6
	5.9	24400	165.21	190000	2.1	TKH	187	YDT 180L6
	7.2	19900	134.99	150000	1.60	TK	167	YDT 180L6
	8.8	16200	109.83	150000	1.95	TKH	167	YDT 180L6
	8.9	16100	164.50	150000	2.0	TK	167	YDT 160L4
	11	13200	134.99	150000	2.4	TKH	167	YDT 160L4
	7.9	18100	122.39	112200	1.00	TK	157	YDT 180L6
	9.7	14800	100.22	113700	1.20	TKF	157	YDT 180L6
	11	13500	91.65	114100	1.35	TKA	157	YDT 180L6
	12	11800	79.75	114800	1.55	TKAF	157	YDT 180L6
	14	10400	70.38	115200	1.75			
	9.7	14800	150.41	113700	1.20	TK	157	YDT 160L4
	12	12000	122.39	114700	1.50	TKF	157	YDT 160L4
	15	9830	100.22	114200	1.85	TKA	157	YDT 160L4
	16	8990	91.65	112500	2.0	TKAF	157	YDT 160L4
	18	7820	79.75	109600	2.3			
	11	13400	136.14	79000	0.95	TK	127	YDT 160L4
	12	12000	122.48	79700	1.10	TKF	127	YDT 160L4
	13	10800	110.18	80300	1.20	TKA	127	YDT 160L4
						TKAF	127	YDT 160L4
	16	8820	89.89	81200	1.45	TK	127	YDT 160L4
	18	8040	81.98	81400	1.60	TKF	127	YDT 160L4
	21	6960	70.95*	81600	1.85	TKA	127	YDT 160L4
	23	6140	62.60	80000	2.1	TKAF	127	YDT 160L4
	27	5300	54.07	78000	2.5			
	31	4690	47.82	76200	2.8			
	16	8920	90.96*	50900	0.90	TK	107	YDT 160L4
	18	8110	82.61	51100	1.00	TKF	107	YDT 160L4
	20	7190	73.30	51200	1.10	TKA	107	YDT 160L4
	22	6530	66.52"	51000	1.25	TKAF	107	YDT 160L4
	26	5610	57.17*	50600	1.45	TK	107	YDT 160L4
	29	4900	49.90	50000	1.60	TKF	107	YDT 160L4
	34	4150	42.33*	49100	1.75	TKA	107	YDT 160L4
	39	3630	37.00*	48200	2.0	TKAF	107	YDT 160L4
	45	3210	32.69	47300	2.3			
	47	3070	31.28*	47000	2.2			
	50	2840	29.00	46400	2.5			
	30	4700	47.93"	28100	0.90	TK	97	YDT 160L4
	35	4110	41.87	28400	1.05	TKF	97	YDT 160L4
	38	3760	38.30	28500	1.15	TKA	97	YDT 160L4
	43	3360	34.23	28500	1.30	TKAF	97	YDT 160L4
	47	3020	30.82	28400	1.40			

PERFORMANCE PARAMETER

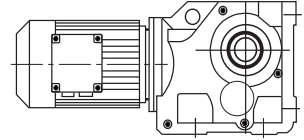


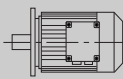
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
15.0	52	2740	27.91	28300	1.55	TK	97	YDT 160L4
	59	2430	24.75	28000	1.75	TKF	97	YDT 160L4
	65	2190	22.37	27700	1.95	TKA	97	YDT 160L4
	77	1860	18.96	27200	2.3	TKAF	97	YDT 160L4
	88	1620	16.56	26600	2.7			
	47	3080	31.39	17300	0.90	TK	87	YDT 160L4
	52	2730	27.88	17600	0.95	TKF	87	YDT 160L4
	59	2440	24.92	17800	1.00	TKA	87	YDT 160L4
	65	2200	22.41	18000	1.05	TKAF	87	YDT 160L4
	75	1910	19.45	18000	1.20			
	84	1710	17.42	18000	1.30			
	91	1570	16.00	16800	1.15	TK	87	YDT 160L4
	101	1420	14.45	17800	1.50	TKF	87	YDT 160L4
	116	1230	12.56	17600	1.60	TKA	87	YDT 160L4
	131	1100	11.17	16600	1.35	TKAF	87	YDT 160L4
	146	980	10.00	16400	1.55			
	176	810	8.29	16000	1.70			
	202	705	7.21	15700	1.85			
18.5	2.8	58600	520	190000	0.85	TK	187 / TRF107	YDT 180M4
	3.2	51100	454	190000	1.00	TKH	187 / TRF107	YDT 180M4
	4.1	39500	355	190000	1.25			
	5.6	29400	261	190000	1.70			
	6.6	24800	221	190000	2.0			
	4.6	35800	318	150000	0.90	TK	167 / TRF107	YDT 180M4
	5.3	31200	278	150000	1.00	TKH	167 / TRF107	YDT 180M4
	6.0	27100	244	150000	1.20			
	6.9	23600	213	150000	1.35			
	7.1	23000	206	150000	1.40			
	8.1	19900	180	150000	1.60			
	9.2	18000	160	150000	1.80			
	11	15200	135	150000	2.1			
	12	13200	118	150000	2.4			
	7.8	20700	187	110700	0.85	TK	157 / TRF107	YDT 180M4
	9.3	17500	157	112400	1.05	TKF	157 / TRF107	YDT 180M4
	12	13700	122	113900	1.30	TKA	157 / TRF107	YDT 180M4
	14	12000	107	112000	1.50	TKAF	157 / TRF107	YDT 180M4
	5.4	32800	179.86	190000	1.55	TK	187	YDT 200LS6
	5.9	30100	165.21	190000	1.65	TKH	187	YDT 200LS6
	6.7	26300	144.59	190000	1.90			
	7.5	23600	129.69	190000	2.1			
	8.2	21700	179.86	190000	2.3	TK	187	YDT 180M4
	8.9	19900	165.21	190000	2.5	TKH	187	YDT 180M4
	10	17400	144.59	190000	2.9			
	11	15600	129.69	190000	3.2			
	11	16300	134.99	150000	1.95	TK	167	YDT 180M4
	13	13200	109.83	150000	2.4	TKH	167	YDT 180M4
	17	10600	87.86	150000	3.0			
	9.7	18300	100.22	112100	1.00	TK	157	YDT 200LS6
	11	16700	91.65	112800	1.10	TKF	157	YDT 200LS6
	12	14500	79.75	111500	1.25	TKA	157	YDT 200LS6
	14	12800	70.38	109900	1.40	TKAF	157	YDT 200LS6
	12	14800	122.39	111600	1.20	TK	157	YDT 180M4
	15	12100	100.22	109100	1.50	TKF	157	YDT 180M4
	16	11100	91.65	107800	1.65	TKA	157	YDT 180M4
	18	9620	79.75	105600	1.85	TKAF	157	YDT 180M4
	21	8490	70.38	103400	2.1			

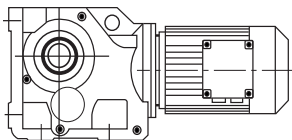


P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
18.5	24	7360	61.02	100700	2.5	TK	157	YDT 180M4
	27	6550	54.29	98500	2.8	TKF	157	YDT 180M4
	31	5640	46.79	95500	3.2	TKA	157	YDT 180M4
	39	4580	38.02	91300	3.9	TKAF	157	YDT 180M4
	13	13300	110.18	79000	1.00	TK	127	YDT 180M4
	16	10800	89.89	79000	1.20	TKF	127	YDT 180M4
	18	9890	81.98	78500	1.30	TKA	127	YDT 180M4
						TKAF	127	YDT 180M4
	21	8560	70.95*	77500	1.50	TK	127	YDT 180M4
	23	7550	62.60	76400	1.70	TKF	127	YDT 180M4
	27	6520	54.07	74800	2.0	TKA	127	YDT 180M4
	31	5770	47.82	73400	2.3	TKAF	127	YDT 180M4
	36	4850	40.19	71300	2.7			
	40	4370	36.25	69900	3.0			
	47	3780	31.37	68000	3.4			
	53	3340	27.68	66200	3.9			
	20	8840	73.30	46300	0.90	TK	107	YDT 180M4
	22	8020	66.52*	46600	1.00	TKF	107	YDT 180M4
	26	6890	57.17*	46800	1.15	TKA	107	YDT 180M4
	29	6020	49.90	46700	1.30	TKAF	107	YDT 180M4
	35	5100	42.33*	46300	1.45	TK	107	YDT 180M4
	40	4460	37.00*	45700	1.60	TKF	107	YDT 180M4
	45	3940	32.69	45100	1.85	TKA	107	YDT 180M4
	47	3770	31.28*	44900	1.80	TKAF	107	YDT 180M4
	51	3500	29.00	44400	2.1			
	56	3170	26.32	43800	2.3			
	65	2730	22.62	42700	2.6			
	74	2380	19.74	41700	3.0			
	88	2020	16.75	40400	3.5			
	35	5050	41.87	25100	0.85	TK	97	YDT 180M4
	48	3720	30.82	26000	1.15	TKF	97	YDT 180M4
	53	3360	27.91	26000	1.30	TKA	97	YDT 180M4
	59	2980	24.75	26000	1.45	TKAF	97	YDT 180M4
	65	2700	22.37	25900	1.60	TK	97	YDT 180M4
	77	2290	18.96	25700	1.90	TKF	97	YDT 180M4
	88	2000	16.56	25300	2.2	TKA	97	YDT 180M4
	106	1670	13.85	24800	2.6	TKAF	97	YDT 180M4
	122	1450	11.99	24300	2.7			
	59	3000	24.92	15600	0.85	TK	87	YDT 180M4
	65	2700	22.41	15900	0.85	TKF	87	YDT 180M4
	75	2340	19.45	16200	1.00	TKA	87	YDT 180M4
	84	2100	17.42	16400	1.05	TKAF	87	YDT 180M4
	101	1740	14.45	16500	1.20			
	117	1510	12.56	16400	1.30			
	131	1350	11.17	15400	1.10			
	147	1210	10.00	15300	1.25			
	177	1000	8.29	15100	1.40			
	203	870	7.21	14900	1.50			
22	3.2	60800	454	190000	0.80	TK	187 / TRF107	YDT 180L4
	4.1	47100	355	190000	1.05	TKH	187 / TRF107	YDT 180L4
	5.6	35000	261	190000	1.45			
	6.6	29600	221	190000	1.70			
	7.6	25800	193	190000	1.95			
	9.0	21800	163	190000	2.3			
	5.3	37200	278	150000	0.85	TK	167 / TRF107	YDT 180L4
	6.0	32300	244	150000	1.00	TKH	167 / TRF107	YDT 180L4

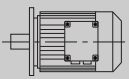
PERFORMANCE PARAMETER



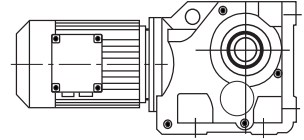
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
22 □	6.9 □	28200 □	213 □	150000 □	1.15 □	TK □	167 / TRF107 □	YDT 180L4 □
	7.1 □	27500 □	206 □	150000 □	1.15 □	TKH □	167 / TRF107 □	YDT 180L4 □
	8.1 □	23800 □	180 □	150000 □	1.35 □			
	9.2 □	21400 □	160 □	150000 □	1.50 □			
	11 □	18100 □	135 □	150000 □	1.75 □			
	12 □	15800 □	118 □	150000 □	2.0 □			
	9.3 □	20900 □	157 □	109400 □	0.85 □	TK □	157 / TRF107 □	YDT 180L4 □
	12 □	16400 □	122 □	108100 □	1.10 □	TKF □	157 / TRF107 □	YDT 180L4 □
	14 □	14300 □	107 □	107000 □	1.25 □	TKA □	157 / TRF107 □	YDT 180L4 □
						TKAF □	157 / TRF107 □	YDT 180L4 □
	5.4 □	39000 □	179.86 □	190000 □	1.30 □	TK □	187 □	YDT 200L6 □
	5.9 □	35800 □	165.21 □	190000 □	1.40 □	TKH □	187 □	YDT 200L6 □
	6.7 □	31300 □	144.59 □	190000 □	1.60 □			
	7.5 □	28100 □	129.69 □	190000 □	1.80 □			
	8.6 □	24400 □	112.60 □	190000 □	2.1 □			
	8.2 □	25800 □	179.86 □	190000 □	1.95 □	TK □	187 □	YDT 180L4 □
	8.9 □	23700 □	165.21 □	190000 □	2.1 □	TKH □	187 □	YDT 180L4 □
	10 □	20700 □	144.59 □	190000 □	2.4 □			
	11 □	18600 □	129.69 □	190000 □	2.7 □			
	11 □	19400 □	134.99 □	150000 □	1.65 □	TK □	167 □	YDT 180L4 □
	13 □	15700 □	109.83 □	150000 □	2.0 □	TKH □	167 □	YDT 180L4 □
	17 □	12600 □	87.86 □	150000 □	2.5 □			
	19 □	11200 □	78.14 □	150000 □	2.9 □			
	9.7 □	21700 □	100.22 □	105900 □	0.85 □	TK □	157 □	YDT 200L6 □
	11 □	19900 □	91.65 □	105900 □	0.90 □	TKF □	157 □	YDT 200L6 □
	12 □	17300 □	79.75 □	105500 □	1.05 □	TKA □	157 □	YDT 200L6 □
	14 □	15200 □	70.38 □	104600 □	1.20 □	TKAF □	157 □	YDT 200L6 □
	16 □	13200 □	61.02 □	103300 □	1.35 □			
	12 □	17600 □	122.39 □	105500 □	1.05 □	TK □	157 □	YDT 180L4 □
	15 □	14400 □	100.22 □	104100 □	1.25 □	TKF □	157 □	YDT 180L4 □
	16 □	13100 □	91.65 □	103200 □	1.35 □	TKA □	157 □	YDT 180L4 □
	18 □	11400 □	79.75 □	101600 □	1.55 □	TKAF □	157 □	YDT 180L4 □
	21 □	10100 □	70.38 □	99800 □	1.80 □			
	24 □	8750 □	61.02 □	97700 □	2.1 □			
	27 □	7790 □	54.29 □	95800 □	2.3 □			
	31 □	6710 □	46.79 □	93200 □	2.7 □			
	39 □	5450 □	38.02 □	89400 □	3.3 □			
	16 □	12900 □	89.89 □	73900 □	1.00 □	TK □	127 □	YDT 180L4 □
	18 □	11800 □	81.98 □	73800 □	1.10 □	TKF □	127 □	YDT 180L4 □
	21 □	10200 □	70.95* □	73400 □	1.30 □	TKA □	127 □	YDT 180L4 □
	23 □	8980 □	62.60 □	72800 □	1.45 □	TKAF □	127 □	YDT 180L4 □
	27 □	7750 □	54.07 □	71700 □	1.70 □	TK □	127 □	YDT 180L4 □
	31 □	6860 □	47.82 □	70700 □	1.90 □	TKF □	127 □	YDT 180L4 □
	36 □	5760 □	40.19 □	69000 □	2.3 □	TKA □	127 □	YDT 180L4 □
	40 □	5200 □	36.25 □	67800 □	2.5 □	TKAF □	127 □	YDT 180L4 □
	47 □	4500 □	31.37 □	66200 □	2.9 □			
	53 □	3970 □	27.68 □	64600 □	3.3 □			
	61 □	3430 □	23.91 □	62800 □	3.8 □			
	69 □	3030 □	21.15 □	61200 □	4.3 □			
	26 □	8200 □	57.17* □	43000 □	1.00 □	TK □	107 □	Y 180L4 □
	29 □	7160 □	49.90 □	43300 □	1.10 □	TKF □	107 □	Y 180L4 □
	35 □	6070 □	42.33* □	43400 □	1.20 □	TKA □	107 □	Y 180L4 □
						TKAF □	107 □	Y 180L4 □
	40 □	5310 □	37.00` □	43200 □	1.35 □	TK □	107 □	Y 180L4 □
	45 □	4690 □	32.69 □	42900 □	1.55 □	TKF □	107 □	Y 180L4 □
	47 □	4490 □	31.28* □	42800 □	1.50 □	TKA □	107	Y 180L4
	51	4160	29.00	42500 □	1.75	TKAF	107	Y 180L4

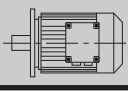


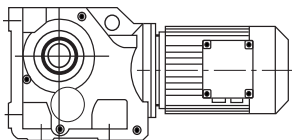
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs		
22□	56□	3770□	26.32□	42000□	1.90□	TK□ 107□	YDT 180L4□
	65□	3240□	22.62□	41200□	2.2□	TKF□ 107□	YDT 180L4□
	74□	2830□	19.74□	40400□	2.5□	TKA□ 107□	YDT 180L4□
	88□	2400□	16.75□	39300□	2.9□	TKAF □107□	YDT 180L4□
	100□	2100□	14.64□	38400□	3.3□		
	109□	1930□	13.43□	36800□	2.2□		
	125□	1680□	11.73□	35900□	2.6□		
	147□	1430□	9.94□	34800□	2.9□		
	48□	4420□	30.82□	23500□	0.95□	TK□ 97□	YDT 180L4□
	53□	4000□	27.91□	23800□	1.05□	TKF□ 97□	YDT 180L4□
	59□	3550□	24.75□	24100□	1.20□	TKA□ 97□	YDT 180L4□
	65□	3210□	22.37□	24200□	1.35□	TKAF □97□	YDT 180L4□
	77□	2720□	18.96□	24100□	1.60□	TK□ 97□	YDT 180L4□
	88□	2370□	16.56□	24000□	1.80□	TKF□ 97□	YDT 180L4□
	106□	1990□	13.85□	23700□	2.2□	TKA□ 97□	YDT 180L4□
	122□	1720□	11.99□	23300□	2.3□	TKAF □97□	YDT 180L4□
	141□	1490□	10.41□	21800□	1.9□		
	168□	1250□	8.71□	21300□	2.1□		
	75□	2790□	19.45□	14400□	0.80□	TK□ 87□	YDT 180L4□
	84□	2500□	17.42□	14800□	0.90□	TKF□ 87□	YDT 180L4□
	101□	2070□	14.45□	15100□	1.00□	TKA□ 87□	YDT 180L4□
	117□	1800□	12.56□	15300□	1.10□	TKAF □87□	YDT 180L4□
	131□	1600□	11.17□	14200□	0.95□		
	147□	1430□	10□	14200□	1.05□		
	177□	1190□	8.29□	14300□	1.20□		
	203□	1030□	7.21□	14200□	1.25□		
30□	5.6□	47700□	261□	190000□	1.05□	TK□ 187 / TRF107□	YDT 200L4□
	6.6□	40400□	221□	190000□	1.25□	TKH□ 187 / TRF107□	YDT 200L4□
	7.6□	35200□	193□	190000□	1.40□		
	9.0□	29700□	163□	190000□	1.70□		
	6.9□	38400□	213□	150000□	0.85□	TK□ 167 / TRF107□	YDT 200L4□
	7.1□	37500□	206□	150000□	0.85□	TKH□ 167 / TRF107□	YDT 200L4□
	8.2□	32400□	180□	150000□	1.00□		
	9.2□	29100□	160□	150000□	1.10□		
	11□	24700□	135□	150000□	1.30□		
	12□	21500□	118□	150000□	1.50□		
	8.2□	35100□	179.86□	190000□	1.45□	TK□ 187□	YDT 200L4□
	8.9□	32200□	165.21□	190000□	1.55□	TKH□ 187□	YDT 200L4□
	10□	28200□	144.59□	190000□	1.75□		
	11□	25300□	129.69□	190000□	2.0□		
	13□	21900□	112.60□	190000□	2.3□		
	14□	19900□	102.16□	190000□	2.5□		
	17□	17200□	88.00□	190000□	2.9□		
	13□	21400□	109.83□	150000□	1.50□	TK□ 167□	YDT 200L4□
	17□	17100□	87.86□	150000□	1.85□	TKH□ 167□	YDT 200L4□
	19□	15200□	78.14□	150000□	2.1□		
	22□	13300□	68.07□	150000□	2.4□		
	24□	11800□	60.74□	150000□	2.7□		
	15□	19500□	100.22□	92700□	0.90□	TK□ 157□	YDT 200L4□
	16□	17900□	91.65□	92800□	1.00□	TKF□ 157□	YDT 200L4□
	18□	15500□	79.75□	92400□	1.15□	TKA□ 157□	YDT 200L4□
	21□	13700□	70.38□	91800□	1.30□	TKAF □157□	YDT 200L4□
	24□	11900□	61.02□	90700□	1.50□		
	27□	10600□	54.29□	89500□	1.70□		
	31□	9120□	46.79□	87800□	1.95□		
	39□	7410□	38.02□	85100□	2.4□		
	47□	6100□	31.30□	82200□	3.0□		

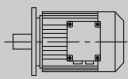
PERFORMANCE PARAMETER



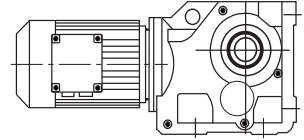
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs		
30□	21□	13800□	70.95*□	64200□	0.95□	TK□ 127	YDT 200L4□
	23□	12200□	62.60□	64600□	1.05□	TKF□ 127	YDT 200L4□
	27□	10500□	54.07□	64700□	1.25□	TKA□ 127	YDT 200L4□
	31□	9320□	47.82□	64400□	1.40□	TKAF □ 127	YDT 200L4□
	37□	7830□	40.19□	63700□	1.65□		
	41□	7060□	36.25□	63100□	1.85□		
	47□	6110□	31.37□	62000□	2.1□		
	53□	5390□	27.68□	61000□	2.4□		
	62□	4660□	23.91□	59600□	2.8□		
	35□	8250□	42.33□	36100□	0.90□	TK□ 107	YDT 200L4□
	40□	7210□	37.00"□	37600□	1.00□	TKF□ 107	YDT 200L4□
	47□	6100□	31.28*□	38000□	1.10□	TKA□ 107	YDT 200L4□
						TKAF □ 107	YDT 200L4□
	51□	5650□	29.00□	38000□	1.25□	TK□ 107	YDT 200L4□
	56□	5130□	26.32□	38000□	1.40□	TKF□ 107	YDT 200L4□
	65□	4410□	22.62□	37700□	1.65□	TKA□ 107	YDT 200L4□
	74□	3850□	19.74□	37400□	1.85□	TKAF □ 107	YDT 200L4□
	88□	3260□	16.75□	36700□	2.2□		
	100□	2850□	14.64□	36100□	2.4□		
	109□	2620□	13.43□	34400□	1.65□		
	125□	2280□	11.73□	33800□	1.90□		
	148□	1940□	9.94□	33000□	2.2□		
	169□	1690□	8.69□	32200□	2.4□		
	59□	4820□	24.75□	19600□	0.90□	TK□ 97	YDT 200L4□
	66□	4360□	22.37□	20100□	1.00□	TKF□ 97	YDT 200L4□
	78□	3690□	18.96□	20700□	1.15□	TKA□ 97	YDT 200L4□
	89□	3230□	16.56□	21000□	1.35□	TKAF □ 97	YDT 200L4□
	106□	2700□	13.85□	21200□	1.60□		
	123□	2340□	11.99□	21100□	1.65□		
	141□	2030□	10.41□	19500□	1.40□		
	169□	1700□	8.71□	19400□	1.55□		
37□	5.6□	58800□	261□	190000□	0.85□	TK□ 187 / TRF107	YDT 225S4□
	6.6□	49900□	221□	190000□	1.00□	TKH□ 187 / TRF107	YDT 225S4□
	7.6□	43500□	193□	190000□	1.15□		
	9.0□	36700□	163□	190000□	1.35□		
	8.2□	40100□	180□	150000□	0.80□	TK□ 167 / TRF107	YDT 225S4□
	9.2□	36000□	160□	150000□	0.90□	TKH□ 167 / TRF107	YDT 225S4□
	11□	30500□	135□	150000□	1.05□		
	12□	26600□	118□	150000□	1.20□		
	8.2□	43200□	179.86□	190000□	1.15□	TK□ 187	YDT 225S4□
	8.9□	39700□	165.21□	190000□	1.25□	TKH□ 187	YDT 225S4□
	10□	34800□	144.59□	190000□	1.45□		
	11□	31200□	129.69□	190000□	1.60□		
	13□	27100□	112.60□	190000□	1.85□		
	14□	24600□	102.16□	190000□	2.0□		
	17□	21200□	88.00□	190000□	2.4□		
	13□	26400□	109.83□	150000□	1.20□	TK□ 167	YDT 225S4□
	17□	21100□	87.86□	150000□	1.50□	TKH□ 167	YDT 225S4□
	19□	18800□	78.14□	150000□	1.70□		
	22□	16400□	68.07□	150000□	1.95□		
	24□	14600□	60.74□	150000□	2.2□		
	28□	12400□	51.77□	150000□	2.6□		
	16□	22000□	91.65□	83600□	0.80□	TK□ 157	YDT 225S4□
	18□	19200□	79.75□	84500□	0.95□	TKF□ 157	YDT 225S4□
						TKA□ 157	YDT 225S4
						TKAF □ 157	YDT 225S4

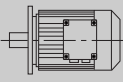


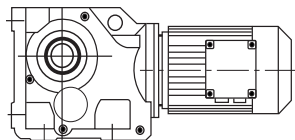
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs			
37 □	21 □	16900 □	70.38 □	84800 □	1.05 □	TK □	157 □	YDT 225S4 □
	24 □	14700 □	61.02 □	84600 □	1.25 □	TKF □	157 □	YDT 225S4 □
	27 □	13000 □	54.29 □	84100 □	1.40 □	TKA □	157 □	YDT 225S4 □
	31 □	11200 □	46.79 □	83200 □	1.60 □	TKAF □	157 □	YDT 225S4 □
	39 □	9140 □	38.02 □	81300 □	1.95 □			
	47 □	7520 □	31.30 □	79100 □	2.4 □			
	23 □	15000 □	62.60 □	57500 □	0.85 □	TK □	127 □	YDT 225S4 □
	27 □	13000 □	54.07 □	58500 □	1.00 □	TKF □	127 □	YDT 225S4 □
	31 □	11500 □	47.82 □	59000 □	1.15 □	TKA □	127 □	YDT 225S4 □
	37 □	9660 □	40.19 □	59100 □	1.35 □	TKAF □	127 □	YDT 225S4 □
	41 □	8710 □	36.25 □	59000 □	1.50 □	TK □	127 □	YDT 225S4 □
	47 □	7540 □	31.37 □	58500 □	1.70 □	TKF □	127 □	YDT 225S4 □
	53 □	6650 □	27.68 □	57800 □	1.95 □	TKA □	127 □	YDT 225S4 □
	62 □	5740 □	23.91 □	56900 □	2.3 □	TKAF □	127 □	YDT 225S4 □
	70 □	5080 □	21.15 □	56000 □	2.6 □			
	83 □	4270 □	17.77 □	54500 □	3.0 □			
	102 □	3450 □	14.35 □	52500 □	3.5 □			
	115 □	3070 □	12.79 □	50200 □	2.8 □			
	137 □	2580 □	10.74 □	48600 □	3.1 □			
	169 □	2090 □	8.68 □	46600 □	3.5 □			
	40 □	8890 □	37.00* □	29000 □	0.80 □	TK □	107 □	YDT 225S4 □
	47 □	7520 □	31.28* □	33000 □	0.90 □	TKF □	107 □	YDT 225S4 □
	51 □	6970 □	29.00 □	34200 □	1.05 □	TKA □	107 □	YDT 225S4 □
	56 □	6320 □	26.32 □	34500 □	1.15 □	TKAF □	107 □	YDT 225S4 □
	65 □	5440 □	22.62 □	34700 □	1.30 □			
	74 □	4740 □	19.74 □	34700 □	1.50 □			
	88 □	4020 □	16.75 □	34500 □	1.75 □			
	100 □	3520 □	14.64 □	34200 □	1.95 □			
	109 □	3230 □	13.43 □	32300 □	1.35 □			
	125 □	2820 □	11.73 □	32000 □	1.55 □			
	148 □	2390 □	9.94 □	31400 □	1.75 □			
	169 □	2090 □	8.69 □	30900 □	1.95 □			
45 □	6.6 □	60700 □	221.00 □	190000 □	0.80 □	TK □	187 / TRF107 □	YDT 225M4 □
	7.6 □	53000 □	193.00 □	190000 □	0.95 □	TKH □	187 / TRF107 □	YDT 225M4 □
	9.0 □	44800 □	163.00 □	190000 □	1.10 □			
	11 □	37100 □	135.00 □	150000 □	0.85 □	TK □	167 / TRF107 □	YDT 225M4 □
	12 □	32400 □	118.00 □	150000 □	1.00 □	TKH □	167 / TRF107 □	YDT 225M4 □
	8.2 □	52600 □	179.86 □	185500 □	0.95 □	TK □	187 □	YDT 225M4 □
	8.9 □	48300 □	165.21 □	190000 □	1.05 □	TKH □	187 □	YDT 225M4 □
	10 □	42300 □	144.59 □	190000 □	1.20 □			
	11 □	37900 □	129.69 □	190000 □	1.30 □			
	13 □	32900 □	112.60 □	190000 □	1.50 □			
	14 □	29900 □	102.16 □	190000 □	1.65 □			
	17 □	25700 □	88.00 □	190000 □	1.95 □			
	20 □	21600 □	73.96 □	187700 □	2.3 □			
	13 □	32100 □	109.83 □	150000 □	1.00 □	TK □	167 □	YDT 225M4 □
	17 □	25700 □	87.86 □	150000 □	1.25 □	TKH □	167 □	YDT 225M4 □
	19 □	22800 □	78.14 □	150000 □	1.40 □			
	22 □	19900 □	68.07 □	150000 □	1.60 □			
	24 □	17800 □	60.74 □	149000 □	1.80 □			
	28 □	15100 □	51.77 □	145300 □	2.1 □			
	34 □	12500 □	42.89 □	140600 □	2.6 □			
	21 □	20600 □	70.38 □	76800 □	0.85 □	TK □	157 □	YDT 225M4 □
	24 □	17800 □	61.02 □	77700 □	1.00 □	TKF □	157 □	YDT 225M4 □
	27 □	15900 □	54.29 □	77900 □	1.15 □	TKA □	157 □	YDT 225M4 □
	31	13700 □	46.79	77800	1.30	TKAF	157	YDT 225M4

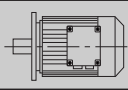
PERFORMANCE PARAMETER



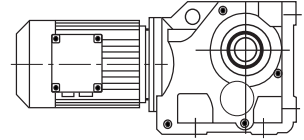
P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	f _s			
45□	39□	11100□	38.02□	76900□	1.60□	TK□	157□	YDT 225M4□
	47□	9150□	31.30□	75500□	1.95□	TKF□	157□	YDT 225M4□
	53□	8080□	27.62□	74300□	2.2□	TKA□	157□	YDT 225M4□
	61□	7000□	23.95□	72800□	2.6□	TKAF □	157□	YDT 225M4□
	69□	6230□	21.31□	71500□	2.9□			
	80□	5370□	18.37□	69700□	3.4□			
	31□	14000□	47.82□	52800□	0.95□	TK□	127□	YDT 225M4□
	37□	11700□	40.19□	53900□	1.10□	TKF□	127□	YDT 225M4□
	41□	10600□	36.25□	54200□	1.25□	TKA□	127□	YDT 225M4□
						TKAF □	127□	YDT 225M4□
	47□	9170□	31.37□	54400□	1.40□	TK□	127□	YDT 225M4□
	53□	8090□	27.68□	54200□	1.60□	TKF□	127□	YDT 225M4□
	62□	6990□	23.91□	53800□	1.85□	TKA□	127□	YDT 225M4□
	70□	6180□	21.15□	53200□	2.1□	TKAF □	127□	YDT 225M4□
	83□	5190□	17.77□	52200□	2.5□			
	102□	4190□	14.35□	50700□	2.9□			
	115□	3740□	12.79□	48300□	2.3□			
	137□	3140□	10.74□	47000□	2.6□			
	169□	2540□	8.68□	45300□	2.9□			
	51□	8480□	29.00□	25600□	0.85□	TK□	107□	YDT 225M4□
	56□	7690□	26.32□	28300□	0.95□	TKF□	107□	YDT 225M4□
	65□	6610□	22.62□	31000□	1.10□	TKA□	107□	YDT 225M4□
	74□	5770□	19.74□	31700□	1.25□	TKAF □	107□	YDT 225M4□
	88□	4890□	16.75□	31900□	1.45□	TK□	107□	YDT 225M4□
	100□	4280□	14.64□	31900□	1.60□	TKF□	107□	YDT 225M4□
	109□	3930□	13.43□	29900□	1.10□	TKA□	107□	YDT 225M4□
	125□	3430□	11.73□	29900□	1.25□	TKAF □	107□	YDT 225M4□
	148□	2910□	9.94□	29600□	1.45□			
	169□	2540□	8.69□	29300□	1.60□			
55□	10□	51500□	144.59□	187400□	0.95□	TK□	187□	YDT 250M4□
	11□	46200□	129.69□	190000□	1.10□	TKH□	187□	YDT 250M4□
	13□	40100□	112.60□	188500□	1.25□			
	14□	36400□	102.16□	187100□	1.35□			
	17□	31300□	88.00□	184200□	1.60□			
	20□	26300□	73.96□	180200□	1.90□			
	23□	22800□	64.04□	176300□	2.2□			
	17□	31300□	87.86□	145300□	1.00□	TK□	167□	YDT 250M4□
	19□	27800□	78.14□	144600□	1.15□	TKH□	167□	YDT 250M4□
	22□	24200□	68.07□	143300□	1.30□			
	24□	21600□	60.74□	141700□	1.50□			
	28□	18400□	51.77□	139100□	1.75□			
	34□	15300□	42.89□	135400□	2.1□			
	40□	13000□	36.61□	131900□	2.5□			
	24□	21700□	61.02□	69000□	0.85□	TK□	157□	YDT 250M4□
	27□	19300□	54.29□	70200□	0.95□	TKF□	157□	YDT 250M4□
	32□	16700□	46.79□	71200□	1.10□	TKA□	157□	YDT 250M4□
	39□	13500□	38.02□	71500□	1.35□	TKAF □	157□	YDT 250M4□
	47□	11100□	31.30□	71000□	1.60□			
	53□	9840□	27.62□	70400□	1.85□			
	62□	8530□	23.95□	69400□	2.1□			
	69□	7590□	21.31□	68400□	2.4□			
	80□	6540□	18.37□	67000□	2.8□			
	99	5310	14.92	64800	3.4□			
	117	4510	12.65	62900	3.8			

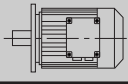


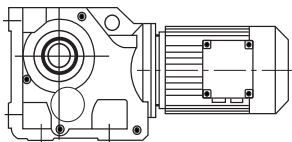
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs				
55□	37□	14300□	40.19□	47400□	0.90□	TK□	127□	YDT 250M4□	
	47□	11200□	31.37□	49300□	1.15□	TKF□	127□	YDT 250M4□	
	53□	9850□	27.68□	49700□	1.30□	TKA□	127□	YDT 250M4□	
						TKAF □	127□	YDT 250M4□	
	62□	8510□	23.91□	49900□	1.55□	TK□	127□	YDT 250M4□	
	70□	7530□	21.15□	49800□	1.75□	TKF□	127□	YDT 250M4□	
	83□	6330□	17.77□	49300□	2.1□	TKA□	127□	YDT 250M4□	
	103□	5110□	14.35□	48300□	2.4□	TKAF □	127□	YDT 250M4□	
	115□	4550□	12.79□	45900□	1.85□				
	137□	3830□	10.74□	45000□	2.1□				
	170□	3090□	8.68□	43600□	2.3□				
	75□	11□	62800□	129.69□	164100□	0.80□	TK□	187□	YDT 280S4□
		13□	54500□	112.60□	166100□	0.90□	TKH□	187□	YDT 280S4□
		14□	49400□	102.16□	166600□	1.00□			
17□		42600□	88.00□	166600□	1.15□				
20□		35800□	73.96□	165300□	1.40□				
23□		31000□	64.04□	163400□	1.60□				
28□		25800□	53.36□	160100□	1.95□				
33□		22000□	45.50*□	156700□	2.3□				
19□		37800□	78.14□	126100□	0.85□	TK□	167□	YDT 280S4□	
22□		32900□	68.07□	127100□	0.95□	TKH□	167□	YDT 280S4□	
24□		29400□	60.74□	127300□	1.10□				
29□		25100□	51.77□	126800□	1.30□				
35□		20800□	42.89□	125200□	1.55□				
40□		17700□	36.61□	123200□	1.80□				
46□		15600□	32.25□	121300□	2.1□				
51□		13900□	28.77□	119300□	2.3□				
60□		11900□	24.52□	116300□	2.7□				
39□		18400□	38.02□	60800□	1.00□	TK□	157□	YDT 280S4□	
47□		15100□	31.30□	62200□	1.20□	TKF□	157□	YDT 280S4□	
54□		13400□	27.62□	62600□	1.35□	TKA□	157□	YDT 280S4□	
62□		11600□	23.95□	62600□	1.55□	TKAF □	157□	YDT 280S4□	
69□		10300□	21.31□	62400□	1.75□				
81□		8890□	18.37□	61800□	2.0□				
99□		7220□	14.92□	60500□	2.5□				
117□		6120□	12.65□	59300□	2.8□				
47□		15200□	31.37□	39200□	0.85□	TK□	127□	YDT 280S4□	
53□		13400□	27.68□	40800□	0.95□	TKF□	127□	YDT 280S4□	
62□		11600□	23.91□	42200□	1.10□	TKA □	127□	YDT 280S4□	
70□		10200□	21.15□	42900□	1.25□	TKAF □	127□	YDT 280S4□	
83□		8600□	17.77□	43500□	1.50□				
103□		6940□	14.35□	43700□	1.75□				
116□		6190□	12.79□	41100□	1.40□				
138□		5200□	10.74□	41000□	1.55□				
171□		4200□	8.68□	40400□	1.70□				
90□	14□	59300□	102.16□	151300□	0.85□	TK□	187□	YDT 280M4□	
	17□	51100□	88.00□	153400□	1.00□	TKH□	187□	YDT 280M4□	
	20□	42900□	73.96□	154200□	1.15□				
	23□	37200□	64.04□	153800□	1.35□				
	28□	31000□	53.36□	152200□	1.60□				
	33□	26400□	45.50"□	149900□	1.90□				
	35□	24700□	42.51□	148700□	2.0□				
	38□	22400□	38.57□	146900□	2.2□				
	22□	39500□	68.07□	115100□	0.80□	TK□	167□	YDT 280M4□	
	24□	35300□	60.74□	116600	0.90	TKH	167□	YDT 280M4	
	29	30100	51.77	117600	1.05				

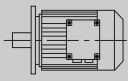
PERFORMANCE PARAMETER

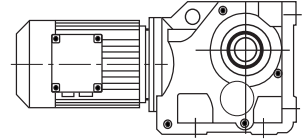


P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs		
90□	35□	24900□	42.89□	117600□	1.30□	TK□ 167□	YDT 280M4□
	40□	21300□	36.61□	116700□	1.50□	TKH□ 167□	YDT 280M4□
	46□	18700□	32.25□	115500□	1.70□		
	51□	16700□	28.77□	114200□	1.90□		
	60□	14200□	24.52□	111900□	2.3□		
	73□	11800□	20.32□	108800□	2.7□		
	85□	10100□	17.34□	106000□	3.2□		
	39□	22100□	38.02□	52700□	0.80□	TK□ 157□	YDT 280M4□
	62□	13900□	23.95□	57500□	1.30□	TKF□ 157□	YDT 280M4□
	69□	12400□	21.31□	57900□	1.45□	TKA□ 157□	YDT 280M4□
	81□	10700□	18.37□	57900□	1.70□	TKAF 157□	YDT 280M4□
	99□	8670□	14.92□	57400□	2.1□		
	117□	7350□	12.65□	56600□	2.3□		
	62□	13900□	23.91□	36400□	0.95□	TK□ 127□	YDT 280M4□
	70□	12300□	21.15□	37800□	1.05□	TKF□ 127□	YDT 280M4□
	83□	10300□	17.77□	39200□	1.25□	TKA□ 127□	YDT 280M4□
	103□	8330□	14.35□	40200□	1.45□	TKAF 127□	YDT 280M4□
	116□	7420□	12.79□	37600□	1.15□		
	138□	6240□	10.74□	38000□	1.30□		
	171□	5040□	8.68□	38000□	1.45□		
110□	17□	62300□	88.00□	136000□	0.80□	TK□ 187□	YDT 315S4□
	20□	52300□	73.96□	139500□	0.95□	TKH□ 187□	YDT 315S4□
	23□	45300□	64.04□	141000□	1.10□		
	28□	37700□	53.36□	141500□	1.30□		
	33□	32200□	45.50*□	140800□	1.55□		
	35□	30100□	42.51□	140200□	1.65□		
	39□	27300□	38.57□	139100□	1.85□		
	45□	23500□	33.23□	137000□	2.1□		
	53□	19800□	27.92□	134000□	2.5□		
	29□	36600□	51.77□	105500□	0.85□	TK□ 167□	YDT 315S4□
	35□	30300□	42.89□	107500□	1.05□	TKH□ 167□	YDT 315S4□
	41□	25900□	36.61□	108100□	1.25□		
	46□	22800□	32.25□	107900□	1.40□		
	52□	20400□	28.77□	107400□	1.55□		
	61□	17300□	24.52□	106100□	1.85□		
	73□	14400□	20.32□	104000□	2.2□		
	86□	12300□	17.34□	101800□	2.6□		
	62□	16900□	23.95□	50800□	1.05□	TK□ 157□	YDT 315S4□
	70□	15100□	21.31□	51900□	1.20□	TKF□ 157□	YDT 315S4□
	81□	13000□	18.37□	52700□	1.40□	TKA□ 157□	YDT 315S4□
	100□	10600□	14.92□	53100□	1.70□	TKAF 157□	YDT 315S4□
	117□	8950□	12.65□	53000□	1.90□		
132□	20□	62800□	73.96□	123300□	0.80□	TK□ 187□	YDT 315M4□
	23□	54400□	64.04□	127000□	0.90□	TKH□ 187□	YDT 315M4□
	28□	45300□	53.36□	129800□	1.10□		
	33□	38600□	45.50*□	130800□	1.30□		
	35□	36100□	42.51□	130900□	1.40□		
	39□	32700□	38.57□	130700□	1.55□		
	45□	28200□	33.23□	129800□	1.75□		
	53□	23700□	27.92□	127900□	2.1□		
	61□	20500□	24.18□	125900□	2.3□		
	74□	17100□	20.15□	122800□	2.6□		
	86□	14600□	17.18□	119700□	2.8□		
	35□	36400□	42.89□	96400□	0.90□	TK□ 167□	YDT 315M4□
	41□	31100□	36.61□	98600□	1.05□	TKH□ 167	YDT 315M4
	46	27400□	32.25	99600	1.15		

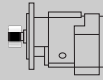
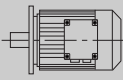


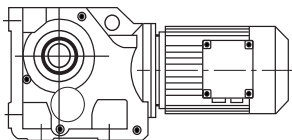
PERFORMANCE PARAMETER

P _{1n} (kW)	N ₂ (r/min)	M _{2n} (Nm)	i	Fr ₂ (N)	fs		
132 □	52 □	24400 □	28.77 □	99900 □	1.30 □	TK □ 167 □	YDT 315M4 □
	61 □	20800 □	24.52 □	99800 □	1.55 □	TKH □ 167 □	YDT 315M4 □
	73 □	17200 □	20.32 □	98700 □	1.85 □		
	86 □	14700 □	17.34 □	97300 □	2.2 □		
	62 □	20300 □	23.95 □	43400 □	0.90 □	TK □ 157 □	YDT 315M4 □
	70 □	18100 □	21.31 □	45300 □	1.00 □	TKF □ 157 □	YDT 315M4 □
	81 □	15600 □	18.37 □	47000 □	1.15 □	TKA □ 157 □	YDT 315M4 □
	100 □	12700 □	14.92 □	48500 □	1.40 □	TKAF □ 157 □	YDT 315M4 □
	117 □	10700 □	12.65 □	49100 □	1.60 □		
160 □	28 □	54900 □	53.36 □	114900 □	0.90 □	TK □ 187 □	YDT 315M4A □
	33 □	46800 □	45.50* □	118100 □	1.05 □	TKH □ 187 □	YDT 315M4A □
	45 □	34200 □	33.23 □	120500 □	1.45 □		
	53 □	28700 □	27.92 □	120100 □	1.75 □		
	61 □	24900 □	24.18 □	119100 □	1.90 □		
	74 □	20700 □	20.15 □	117200 □	2.1 □		
	86 □	17700 □	17.18 □	114900 □	2.3 □		
	41 □	37700 □	36.61 □	86500 □	0.85 □	TK □ 167 □	YDT 315M4A □
	61 □	25200 □	24.52 □	91700 □	1.25 □	TKH □ 167 □	YDT 315M4A □
	73 □	20900 □	20.32 □	92000 □	1.55 □		
	86 □	17800 □	17.34 □	91600 □	1.80 □		
	81 □	18900 □	18.37 □	39800 □	0.95 □	TK □ 157 □	YDT 315M4A □
	100 □	15400 □	14.92 □	42600 □	1.15 □	TKF □ 157 □	YDT 315M4A □
	117 □	13000 □	12.65 □	44100 □	1.30 □	TKA □ 157 □	YDT 315M4A □
						TKAF □ 157 □	YDT 315M4A
200 □	33 □	58500 □	45.50* □	100000 □	0.85 □	TK □ 187 □	YDT 315M4B □
	45 □	42700 □	33.23 □	107300 □	1.15 □	TKH □ 187 □	YDT 315M4B □
	53 □	35900 □	27.92 □	109000 □	1.40 □		
	61 □	31100 □	24.18 □	109500 □	1.55 □		
	74 □	25900 □	20.15 □	109100 □	1.70 □		
	86 □	22100 □	17.18 □	108100 □	1.85 □		
	61 □	31500 □	24.52 □	80100 □	1.00 □	TK □ 167 □	YDT 315M4B □
	73 □	26100 □	20.32 □	82400 □	1.20 □	TKH □ 167 □	YDT 315M4B □
	86 □	22300 □	17.34 □	83400 □	1.45 □		
	100 □	19200 □	14.92 □	34200 □	0.95 □	TK □ 157 □	YDT 315M4B □
	117 □	16300 □	12.65 □	36900 □	1.05 □	TKF □ 157 □	YDT 315M4B □
						TKA □ 157 □	YDT 315M4B
						TKAF □ 157	YDT 315M4B

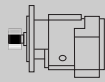
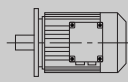


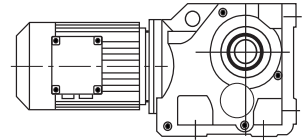
PERFORMANCE PARAMETER

M _{2max} (Nm)	N ₂ (r/min)	i	Fr ₂ (N)			
200 □	0.20 □	6832 □	5640 □	TK □	37 / TRF17 □	YDA 63S4 □
	0.23 □	5922 □	5640 □	TKF □	37 / TRF17 □	YDA 63S4 □
	0.25 □	5491 □	5640 □	TKA □	37 / TRF17 □	YDA 63S4 □
	0.29 □	4759 □	5640 □	TKAF □	37 / TRF17 □	YDA 63S4 □
	0.33 □	4160 □	5640 □			
	0.38 □	3645 □	5640 □			
	0.43 □	3205 □	5640 □			
	0.49 □	2801 □	5640 □			
	0.56 □	2454 □	5640 □			
	0.64 □	2166 □	5640 □			
	0.73 □	1891 □	5640 □			
	0.83 □	1660 □	5640 □			
	0.94 □	1466 □	5640 □			
	1.1 □	1288 □	5640 □			
	1.2 □	1136 □	5640 □			
	1.4 □	996 □	5640 □	TK □	37 / TRF17 □	YDA 63S4 □
	1.6 □	876 □	5640 □	TKF □	37 / TRF17 □	YDA 63S4 □
	1.8 □	761 □	5640 □	TKA □	37 / TRF17 □	YDA 63S4 □
	2.1 □	671 □	5640 □	TKAF □	37 / TRF17 □	YDA 63S4 □
	2.4 □	585 □	5640 □			
	2.7 □	512 □	5640 □			
	3.1 □	451 □	5640 □			
	3.5 □	396 □	5640 □			
	4.0 □	346 □	5640 □			
	4.3 □	304 □	5640 □	TK □	37 / TRF17 □	YDA 63M4 □
	4.9 □	267 □	5640 □	TKF □	37 / TRF17 □	YDA 63M4 □
	5.7 □	234 □	5640 □	TKA □	37 / TRF17 □	YDA 63M4 □
	6.4 □	205 □	5640 □	TKAF □	37 / TRF17 □	YDA 63M4 □
	7.2 □	181 □	5640 □	TK □	37 / TRF17 □	YDA 63L4 □
	8.1 □	160 □	5640 □	TKF □	37 / TRF17 □	YDA 63L4 □
	9.5 □	136 □	5640 □	TKA □	37 / TRF17 □	YDA 63L4 □
	10 □	127 □	5640 □	TKAF □	37 / TRF17 □	YDA 63L4 □
	12 □	110 □	5640 □	TK □	37 / TRF17 □	YDA 71D4 □
	14 □	96 □	5640 □	TKF □	37 / TRF17 □	YDA 71D4 □
				TKA □	37 / TRF17 □	YDA 71D4 □
				TKAF □	37 / TRF17 □	YDA 71D4 □
400 □	0.14 □	10138 □	5920 □	TK □	47 / TRF37 □	YDA 63S4 □
	0.16 □	8534 □	5920 □	TKF □	47 / TRF37 □	YDA 63S4 □
	0.18 □	7662 □	5920 □	TKA □	47 / TRF37 □	YDA 63S4 □
	0.20 □	6826 □	5920 □	TKAF □	47 / TRF37 □	YDA 63S4 □
	0.23 □	5983 □	5920 □			
	0.27 □	5159 □	5920 □			
	0.30 □	4601 □	5920 □			
	0.35 □	3940 □	5920 □			
	0.40 □	3477 □	5920 □			
	0.45 □	3043 □	5920 □			
	0.51 □	2733 □	5920 □			
	0.59 □	2354 □	5920 □			
	0.67 □	2063 □	5920 □			
	0.76 □	1819 □	5920 □			
	0.87 □	1586 □	5920 □			
	0.99 □	1388 □	5920 □			

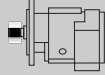
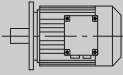


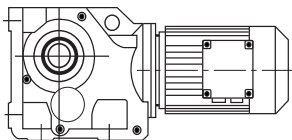
PERFORMANCE PARAMETER

M2max (Nm)	N ₂ (r/min)	i	Fr ₂ (N)			
400 □	1.1 □	1222 □	5920 □	TK □	47 / TRF37 □	YDA 63S4 □
	1.3 □	1097 □	5920 □	TKF □	47 / TRF37 □	YDA 63S4 □
	1.5 □	945 □	5920 □	TKA □	47 / TRF37 □	YDA 63S4 □
	1.7 □	831 □	5920 □	TKAF □	47 / TRF37 □	YDA 63S4 □
	1.9 □	718 □	5920 □			
	2.2 □	639 □	5920 □			
	2.4 □	552 □	5920 □	TK □	47 / TRF37 □	YDA 63M4 □
	2.7 □	495 □	5920 □	TKF □	47 / TRF37 □	YDA 63M4 □
	3.1 □	426 □	5920 □	TKA □	47 / TRF37 □	YDA 63M4 □
				TKAF □	47 / TRF37 □	YDA 63M4 □
	3.5 □	375 □	5920 □	TK □	47 / TRF37 □	YDA 63L4 □
	4.0 □	327 □	5920 □	TKF □	47 / TRF37 □	YDA 63L4 □
	4.5 □	289 □	5920 □	TKA □	47 / TRF37 □	YDA 63L4 □
				TKAF □	47 / TRF37 □	YDA 63L4 □
	5.4 □	256 □	5920 □	TK □	47 / TRF37 □	YDA 71D4 □
	6.2 □	225 □	5920 □	TKF □	47 / TRF37 □	YDA 71D4 □
	7.0 □	198 □	5920 □	TKA □	47 / TRF37 □	YDA 71D4 □
				TKAF □	47 / TRF37 □	YDA 71D4 □
	8.0 □	171 □	5920 □	TK □	47 / TRF37 □	YDA 80K4 □
	8.9 □	153 □	5920 □	TKF □	47 / TRF37 □	YDA 80K4 □
	10 □	131 □	5920 □	TKA □	47 / TRF37 □	YDA 80K4 □
				TKAF □	47 / TRF37 □	YDA 80K4
600 □	0.11 □	12169 □	7630 □	TK □	57 / TRF37 □	YDA 63S4 □
	0.12 □	11162 □	7630 □	TKF □	57 / TRF37 □	YDA 63S4 □
	0.15 □	9503 □	7630 □	TKA □	57 / TRF37 □	YDA 63S4 □
	0.16 □	8547 □	7630 □	TKAF □	57 / TRF37 □	YDA 63S4 □
	0.19 □	7277 □	7630 □			
	0.21 □	6478 □	7630 □			
	0.24 □	5662 □	7630 □			
	0.27 □	5033 □	7630 □			
	0.32 □	4340 □	7630 □			
	0.36 □	3854 □	7630 □			
	0.41 □	3390 □	7630 □			
	0.47 □	2924 □	7630 □			
	0.53 □	2593 □	7630 □			
	0.61 □	2249 □	7630 □			
	0.70 □	1986 □	7630 □			
	0.79 □	1743 □	7630 □	TK □	57 / TRF37 □	YDA 63S4 □
	0.90 □	1539 □	7630 □	TKF □	57 / TRF37 □	YDA 63S4 □
	1.0 □	1354 □	7630 □	TKA □	57 / TRF37 □	YDA 63S4 □
	1.2 □	1174 □	7630 □	TKAF □	57 / TRF37 □	YDA 63S4 □
	1.3 □	1036 □	7630 □			
	1.5 □	906 □	7630 □	TK □	57 / TRF37 □	YDA 63M4 □
	1.6 □	806 □	7630 □	TKF □	57 / TRF37 □	YDA 63M4 □
	1.9 □	699 □	7630 □	TKA □	57 / TRF37 □	YDA 63M4 □
	2.1 □	615 □	7630 □	TKAF □	57 / TRF37 □	YDA 63M4 □
	2.4 □	544 □	7630 □	TK □	57 / TRF37 □	YDA 63L4 □
	2.8 □	473 □	7630 □	TKF □	57 / TRF37 □	YDA 63L4 □
	3.1 □	421 □	7630 □	TKA □	57 / TRF37 □	YDA 63L4 □
				TKAF □	57 / TRF37 □	YDA 63L4 □
	3.8 □	362 □	7630 □	TK □	57 / TRF37 □	YDA 71D4 □
	4.3 □	319 □	7630 □	TKF □	57 / TRF37 □	YDA 71D4 □
	4.9 □	280 □	7630 □	TKA □	57 / TRF37	YDA 71D4 □
				TKAF	57 / TRF37	YDA 71D4

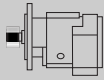
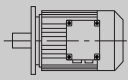


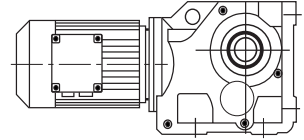
PERFORMANCE PARAMETER

M _{2max} (Nm)	N ₂ (r/min)	i	Fr ₂ (N)			
600□	5.5□	246□	7630□	TK□	57 / TRF37□	YDA 80K4□
	6.3□	215□	7630□	TKF□	57 / TRF37□	YDA 80K4□
	7.1□	192□	7630□	TKA□	57 / TRF37□	YDA 80K4□
				TKAF□	57 / TRF37□	YDA 80K4□
	8.3□	166□	7630□	TK□	57 / TRF37□	YDA 80N4□
	9.6□	145□	7630□	TKF□	57 / TRF37□	YDA 80N4□
	11□	129□	7630□	TKA□	57 / TRF37□	YDA 80N4□
				TKAF□	57 / TRF37□	YDA 80N4□
	13□	111□	7630□	TK□	57 / TRF37□	YDA 90S4□
	14□	97□	7630□	TKF□	57 / TRF37□	YDA 90S4□
				TKA□	57 / TRF37□	YDA 90S4□
				TKAF□	57 / TRF37□	YDA 90S4□
820□	0.11□	12139□	10300□	TK□	67 / TRF37□	YDA 63S4□
	0.12□	11134□	10300□	TKF□	67 / TRF37□	YDA 63S4□
	0.15□	9479□	10300□	TKA□	67 / TRF37□	YDA 63S4□
	0.17□	8173□	10300□	TKAF□	67 / TRF37□	YDA 63S4□
	0.19□	7259□	10300□			
	0.21□	6462□	10300□			
	0.24□	5648□	10300□			
	0.28□	4846□	10300□			
	0.32□	4329□	10300□			
	0.37□	3750□	10300□			
	0.42□	3315□	10300□			
	0.47□	2917□	10300□			
	0.55□	2532□	10300□			
	0.62□	2244□	10300□			
	0.70□	1981□	10300□			
	0.79□	1739□	10300□	TK□	67 / TRF37□	YDA 63S4□
	0.90□	1535□	10300□	TKF□	67 / TRF37□	YDA 63S4□
	1.0□	1351□	10300□	TKA□	67 / TRF37□	YDA 63S4□
				TKAF□	67 / TRF37□	YDA 63S4□
	1.1□	1171□	10300□	TK□	67 / TRF37□	YDA 63M4□
	1.3□	1034□	10300□	TKF□	67 / TRF37□	YDA 63M4□
	1.5□	903□	10300□	TKA□	67 / TRF37□	YDA 63M4□
	1.7□	793□	10300□	TKAF□	67 / TRF37□	YDA 63M4□
	1.9□	697□	10300□	TK□	67 / TRF37□	YDA 63L4□
	2.1□	613□	10300□	TKF□	67 / TRF37□	YDA 63L4□
	2.4□	542□	10300□	TKA□	67 / TRF37□	YDA 63L4□
				TKAF□	67 / TRF37□	YDA 63L4□
	2.9□	471□	10300□	TK□	67 / TRF37□	YDA 71D4□
	3.3□	420□	10300□	TKF□	67 / TRF37□	YDA 71D4□
				TKA□	67 / TRF37□	YDA 71D4□
				TKAF□	67 / TRF37□	YDA 71D4□
	3.8□	361□	10300□	TK□	67 / TRF37□	YDA 80K4□
	4.2□	323□	10300□	TKF□	67 / TRF37□	YDA 80K4□
	4.9□	279□	10300□	TKA□	67 / TRF37□	YDA 80K4□
	5.5□	246□	10300□	TKAF□	67 / TRF37□	YDA 80K4□
	6.4□	217□	10300□	TK□	67 / TRF37□	YDA 80N4□
	7.2□	191□	10300□	TKF□	67 / TRF37□	YDA 80N4□
				TKA□	67 / TRF37□	YDA 80N4□
				TKAF□	67 / TRF37□	YDA 80N4□
1550□	0.09□	15310□	15400□	TK□	77 / TRF37□	YDA 63S4□
	0.10□	14043□	15400□	TKF□	77 / TRF37□	YDA 63S4□
	0.12□	11955□	15400□	TKA□	77 / TRF37□	YDA 63S4□
	0.14□	10217□	15400□	TKAF□	77 / TRF37□	YDA 63S4□
	0.16□	8809□	15400□			

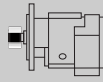
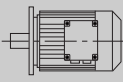


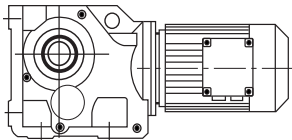
PERFORMANCE PARAMETER

M _{2max} (Nm)	N ₂ (r/min)	i	F _{r2} (N)			
1550□	0.18□	7528□	15400□	TK□	77 / TRF37□	YDA 63S4□
	0.21□	6606□	15400□	TKF□	77 / TRF37□	YDA 63S4□
	0.24□	5774□	15400□	TKA□	77 / TRF37□	YDA 63S4□
	0.27□	5089□	15400□	TKAF□	77 / TRF37□	YDA 63S4□
	0.31□	4489□	15400□			
	0.35□	3961□	15400□			
	0.40□	3485□	15400□			
	0.48□	2901□	15400□			
	0.51□	2717□	15400□			
	0.56□	2370□	15400□	TK□	77 / TRF37□	YDA 63M4□
				TKF□	77 / TRF37□	YDA 63M4□
				TKA□	77 / TRF37□	YDA 63M4□
				TKAF□	77 / TRF37□	YDA 63M4□
	0.64□	2050□	15400□	TK□	77 / TRF37□	YDA 63M4□
	0.75□	1772□	15400□	TKF□	77 / TRF37□	YDA 63M4□
	0.87□	1514□	15400□	TKA□	77 / TRF37□	YDA 63M4□
				TKAF□	77 / TRF37□	YDA 63M4□
	0.94□	1388□	15400□	TK□	77 / TRF37□	YDA 63L4□
	1.1□	1218□	15400□	TKF□	77 / TRF37□	YDA 63L4□
	1.2□	1053□	15400□	TKA□	77 / TRF37□	YDA 63L4□
				TKAF□	77 / TRF37□	YDA 63L4□
	1.5□	924□	15400□	TK□	77 / TRF37□	YDA 71D4□
	1.7□	815□	15400□	TKF□	77 / TRF37□	YDA 71D4□
	1.9□	709□	15400□	TKA□	77 / TRF37□	YDA 71D4□
				TKAF□	77 / TRF37□	YDA 71D4□
	2.2□	622□	15400□	TK□	77 / TRF37□	YDA 80K4□
	2.5□	552□	15400□	TKF□	77 / TRF37□	YDA 80K4□
	2.8□	485□	15400□	TKA□	77 / TRF37□	YDA 80K4□
				TKAF□	77 / TRF37□	YDA 80K4□
	3.2□	428□	15400□	TK□	77 / TRF37□	YDA 80N4□
	3.8□	367□	15400□	TKF□	77 / TRF37□	YDA 80N4□
				TKA□	77 / TRF37□	YDA 80N4□
				TKAF□	77 / TRF37□	YDA 80N4□
	4.3□	328□	15400□	TK□	77 / TRF37□	YDA 90S4□
	4.8□	290□	15400□	TKF□	77 / TRF37□	YDA 90S4□
	5.5□	252□	15400□	TKA□	77 / TRF37□	YDA 90S4□
				TKAF□	77 / TRF37□	YDA 90S4□
2700□	0.09□	14829□	27300□	TK□	87 / TRF57□	YDA 63S4□
	0.10□	13168□	27300□	TKF□	87 / TRF57□	YDA 63S4□
	0.12□	11737□	27300□	TKA□	87 / TRF57□	YDA 63S4□
	0.14□	10217□	27300□	TKAF□	87 / TRF57□	YDA 63S4□
	0.15□	9073□	27300□			
	0.18□	7854□	27300□			
	0.20□	6832□	27300□			
	0.23□	5930□	27300□			
	0.26□	5240□	27300□			
	0.30□	4562□	27300□			
	0.33□	4037□	27300□	TK□	87 / TRF57□	YDA 63M4□
	0.37□	3609□	27300□	TKF□	87 / TRF57□	YDA 63M4□
	0.42□	3107□	27300□	TKA□	87 / TRF57□	YDA 63M4□
	0.48□	2728□	27300□	TKAF□	87 / TRF57□	YDA 63M4□
	0.55□	2371□	27300□	TK□	87 / TRF57□	YDA 63L4□
				TKF□	87 / TRF57□	YDA 63L4□
				TKA	87 / TRF57	YDA 63L4□
				TKAF	87 / TRF57	YDA 63L4

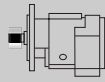
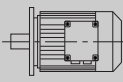


PERFORMANCE PARAMETER

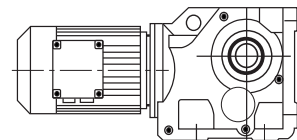
M _{2max} (Nm)	N ₂ (r/min)	i	Fr ₂ (N)			
2700□	0.62□	2088□	27300□	TK□	87 / TRF57□	YDA 63L4□
	0.70□	1854□	27300□	TKF□	87 / TRF57□	YDA 63L4□
				TKA□	87 / TRF57□	YDA 63L4□
				TKAF□	87 / TRF57□	YDA 63L4□
	0.83□	1657□	27300□	TK□	87 / TRF57□	YDA 71D4□
	0.97□	1415□	27300□	TKF□	87 / TRF57□	YDA 71D4□
	1.1□	1229□	27300□	TKA□	87 / TRF57□	YDA 71D4□
				TKAF□	87 / TRF57□	YDA 71D4□
	1.3□	1078□	27300□	TK□	87 / TRF57□	YDA 80K4□
	1.4□	951□	27300□	TKF□	87 / TRF57□	YDA 80K4□
	1.6□	837□	27300□	TKA□	87 / TRF57□	YDA 80K4□
				TKAF□	87 / TRF57□	YDA 80K4□
	1.9□	726□	27300□	TK□	87 / TRF57□	YDA 80N4□
	2.2□	638□	27300□	TKF□	87 / TRF57□	YDA 80N4□
				TKA□	87 / TRF57□	YDA 80N4□
				TKAF□	87 / TRF57□	YDA 80N4□
	2.5□	562□	27300□	TK□	87 / TRF57□	YDA 90S4□
	3.0□	474□	27300□	TKF□	87 / TRF57□	YDA 90S4□
	3.3□	426□	27300□	TKA□	87 / TRF57□	YDA 90S4□
				TKAF□	87 / TRF57□	YDA 90S4□
	3.8□	373□	27300□	TK□	87 / TRF57□	YDA 90L4□
	4.3□	330□	27300□	TKF□	87 / TRF57□	YDA 90L4□
	4.8□	294□	27300□	TKA□	87 / TRF57□	YDA 90L4□
				TKAF□	87 / TRF57□	YDA 90L4□
	5.6□	250□	27300□	TK□	87 / TRF57□	YDA 100M4□
	6.0□	236□	27300□	TKF□	87 / TRF57□	YDA 100M4□
	7.0□	201□	27300□	TKA□	87 / TRF57□	YDA 100M4□
				TKAF□	87 / TRF57□	YDA 100M4□
4300□	0.08□	18091□	40000□	TK□	97 / TRF57□	YDA 63S4□
	0.08□	16666□	40000□	TKF□	97 / TRF57□	YDA 63S4□
	0.09□	14897□	40000□	TKA□	97 / TRF57□	YDA 63S4□
	0.10□	13182□	40000□	TKAF□	97 / TRF57□	YDA 63S4□
	0.12□	11677□	40000□			
	0.13□	10317□	40000□			
	0.15□	9083□	40000□			
	0.17□	8054□	40000□			
	0.20□	6970□	40000□			
	0.22□	6027□	40000□	TK□	97 / TRF57□	YDA 63M4□
	0.24□	5391□	40000□	TKF□	97 / TRF57□	YDA 63M4□
	0.28□	4669□	40000□	TKA□	97 / TRF57□	YDA 63M4□
	0.32□	4082□	40000□	TKAF□	97 / TRF57□	YDA 63M4□
	0.36□	3583□	40000□	TK□	97 / TRF57□	YDA 63L4□
	0.42□	3108□	40000□	TKF□	97 / TRF57□	YDA 63L4□
				TKA□	97 / TRF57□	YDA 63L4□
				TKAF□	97 / TRF57□	YDA 63L4□
	0.50□	2757□	40000□	TK□	97 / TRF57□	YDA 71D4□
				TKF□	97 / TRF57□	YDA 71D4□
				TKA□	97 / TRF57□	YDA 71D4□
				TKAF□	97 / TRF57□	YDA 71D4□
	0.57□	2419□	40000□	TK□	97 / TRF57□	YDA 71D4□
	0.65□	2123□	40000□	TKF□	97 / TRF57□	YDA 71D4□
				TKA□	97 / TRF57□	YDA 71D4□
				TKAF□	97 / TRF57□	YDA 71D4□
	0.73□	1856□	40000□	TK□	97 / TRF57□	YDA 80K4□
	0.84□	1625□	40000□	TKF□	97 / TRF57□	YDA 80K4□
	0.95□	1430□	40000□	TKA□	97 / TRF57□	YDA 80K4□
	1.1	1261	40000	TKAF	97 / TRF57	YDA 80K4

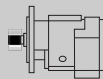
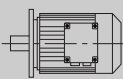


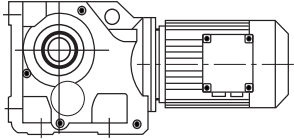
PERFORMANCE PARAMETER

M2max (Nm)	N ₂ (r/min)	i	Fr ₂ (N)			
4300 □	1.2 □	1102 □	40000 □	TK □	97 / TRF57 □	YDA 80N4 □
	1.4 □	957 □	40000 □	TKF □	97 / TRF57 □	YDA 80N4 □
				TKA □	97 / TRF57 □	YDA 80N4 □
				TKAF □	97 / TRF57 □	YDA 80N4 □
	1.6 □	855 □	40000 □	TK □	97 / TRF57 □	YDA 90S4 □
	1.9 □	743 □	40000 □	TKF □	97 / TRF57 □	YDA 90S4 □
	2.1 □	652 □	40000 □	TKA □	97 / TRF57 □	YDA 90S4 □
				TKAF □	97 / TRF57 □	YDA 90S4 □
	2.5 □	573 □	40000 □	TK □	97 / TRF57 □	YDA 90L4 □
	2.8 □	504 □	40000 □	TKF □	97 / TRF57 □	YDA 90L4 □
				TKA □	97 / TRF57 □	YDA 90L4 □
				TKAF □	97 / TRF57 □	YDA 90L4 □
	3.2 □	437 □	40000 □	TK □	97 / TRF57 □	YDA 100M4 □
	3.7 □	382 □	40000 □	TKF □	97 / TRF57 □	YDA 100M4 □
	4.1 □	342 □	40000 □	TKA □	97 / TRF57 □	YDA 100M4 □
				TKAF □	97 / TRF57 □	YDA 100M4 □
	4.6 □	305 □	40000 □	TK □	97 / TRF57 □	YDA 100L4 □
	5.4 □	258 □	40000 □	TKF □	97 / TRF57 □	YDA 100L4 □
	6.0 □	232 □	40000 □	TKA □	97 / TRF57 □	YDA 100L4 □
				TKAF □	97 / TRF57 □	YDA 100L4 □
	7.1 □	199 □	40000 □	TK □	97 / TRF57 □	YDA 112M4 □
				TKF □	97 / TRF57 □	YDA 112M4 □
				TKA □	97 / TRF57 □	YDA 112M4 □
				TKAF □	97 / TRF57 □	YDA 112M4 □
8000 □	0.10 □	14311 □	65000 □	TK □	107 / TRF77 □	YDA 63S4 □
	0.11 □	12211 □	65000 □	TKF □	107 / TRF77 □	YDA 63S4 □
				TKA □	107 / TRF77 □	YDA 63S4 □
				TKAF □	107 / TRF77 □	YDA 63S4 □
	0.12 □	10677 □	65000 □	TK □	107 / TRF77 □	YDA 63M4 □
	0.14 □	9524 □	65000 □	TKF □	107 / TRF77 □	YDA 63M4 □
	0.16 □	8328 □	65000 □	TKA □	107 / TRF77 □	YDA 63M4 □
				TKAF □	107 / TRF77 □	YDA 63M4 □
	0.18 □	7270 □	65000 □	TK □	107 / TRF77 □	YDA 63L4 □
	0.21 □	6184 □	65000 □	TKF □	107 / TRF77 □	YDA 63L4 □
	0.23 □	5662 □	65000 □	TKA □	107 / TRF77 □	YDA 63L4 □
				TKAF □	107 / TRF77 □	YDA 63L4 □
	0.27 □	5138 □	65000 □	TK □	107 / TRF77 □	YDA 71D4 □
	0.32 □	4359 □	65000 □	TKF □	107 / TRF77 □	YDA 71D4 □
	0.36 □	3810 □	65000 □	TKA □	107 / TRF77 □	YDA 71D4 □
				TKAF □	107 / TRF77 □	YDA 71D4 □
	0.41 □	3358 □	65000 □	TK □	107 / TRF77 □	YDA 80K4 □
	0.46 □	2977 □	65000 □	TKF □	107 / TRF77 □	YDA 80K4 □
	0.52 □	2599 □	65000 □	TKA □	107 / TRF77 □	YDA 80K4 □
				TKAF □	107 / TRF77 □	YDA 80K4 □
	0.60 □	2286 □	65000 □	TK □	107 / TRF77 □	YDA 80N4 □
	0.71 □	1939 □	65000 □	TKF □	107 / TRF77 □	YDA 80N4 □
				TKA □	107 / TRF77 □	YDT 80N4 □
				TKAF □	107 / TRF77 □	YDT 80N4 □
	0.82 □	1713 □	65000 □	TK □	107 / TRF77 □	YDA 90S4 □
	0.90 □	1554 □	65000 □	TKF □	107 / TRF77 □	YDA 90S4 □
	1.1 □	1336 □	65000 □	TKA □	107 / TRF77 □	YDA 90S4 □
				TKAF □	107 / TRF77 □	YDA 90S4 □
	1.2 □	1166 □	65000 □	TK □	107 / TRF77 □	YDA 90L4 □
	1.4 □	1030 □	65000 □	TKF □	107 / TRF77 □	YDA 90L4 □
	1.6 □	904 □	65000 □	TKA □	107 / TRF77 □	YDA 90L4 □
				TKAF □	107 / TRF77 □	YDA 90L4 □

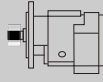
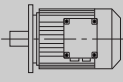
PERFORMANCE PARAMETER



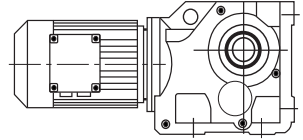
M _{2max} (Nm)	N ₂ (r/min)	i	Fr ₂ (N)			
8000 □	1.8 □	793 □	65000 □	TK □	107 / TRF77 □	YDA 100M4 □
	2.0 □	696 □	65000 □	TKF □	107 / TRF77 □	YDA 100M4 □
	2.3 □	615 □	65000 □	TKA □	107 / TRF77 □	YDA 100M4 □
				TKAF □	107 / TRF77 □	YDA 100M4 □
	2.7 □	522 □	65000 □	TK □	107 / TRF77 □	YDA 100L4 □
	3.0 □	461 □	65000 □	TKF □	107 / TRF77 □	YDA 100L4 □
				TKA □	107 / TRF77 □	YDA 100L4 □
				TKAF □	107 / TRF77 □	YDA 100L4 □
	3.5 □	408 □	65000 □	TK □	107 / TRF77 □	YDA 112M4 □
	3.9 □	364 □	65000 □	TKF □	107 / TRF77 □	YDA 112M4 □
				TKA □	107 / TRF77 □	YDA 112M4 □
				TKAF □	107 / TRF77 □	YDA 112M4 □
	4.5 □	318 □	65000 □	TK □	107 / TRF77 □	YDA 132S4 □
	5.0 □	286 □	65000 □	TKF □	107 / TRF77 □	YDA 132S4 □
	5.7 □	251 □	65000 □	TKA □	107 / TRF77 □	YDA 132S4 □
				TKAF □	107 / TRF77 □	YDA 132S4 □
13000 □	0.08 □	17550 □	79200 □	TK □	127 / TRF77 □	YDA 63M4 □
	0.08 □	16006 □	79200 □	TKF □	127 / TRF77 □	YDA 63M4 □
	0.09 □	14975 □	79200 □	TKA □	127 / TRF77 □	YDA 63M4 □
	0.11 □	12440 □	79200 □	TKAF □	127 / TRF77 □	YDA 63M4 □
	0.12 □	10915 □	79200 □	TK □	127 / TRF77 □	YDA 63L4 □
	0.13 □	9819 □	79200 □	TKF □	127 / TRF77 □	YDA 63L4 □
				TKA □	127 / TRF77 □	YDA 63L4 □
				TKAF □	127 / TRF77 □	YDA 63L4 □
	0.16 □	8443 □	79200 □	TK □	127 / TRF77 □	YDA 71D4 □
	0.18 □	7482 □	79200 □	TKF □	127 / TRF77 □	YDA 71D4 □
	0.21 □	6565 □	79200 □	TKA □	127 / TRF77 □	YDA 71D4 □
				TKAF □	127 / TRF77 □	YDA 71D4 □
	0.23 □	5804 □	79200 □	TK □	127 / TRF77 □	YDA 80K4 □
	0.27 □	5027 □	79200 □	TKF □	127 / TRF77 □	YDA 80K4 □
	0.31 □	4423 □	79200 □	TKA □	127 / TRF77 □	YDA 80K4 □
	0.35 □	3889 □	79200 □	TKAF □	127 / TRF77 □	YDA 80K4 □
	0.42 □	3311 □	79200 □	TK □	127 / TRF77 □	YDA 80N4 □
	0.46 □	3009 □	79200 □	TKF □	127 / TRF77 □	YDA 80N4 □
				TKA □	127 / TRF77 □	YDA 80N4 □
				TKAF □	127 / TRF77 □	YDA 80N4 □
	0.54 □	2607 □	79200 □	TK □	127 / TRF77 □	YDA 90S4 □
	0.62 □	2268 □	79200 □	TKF □	127 / TRF77 □	YDA 90S4 □
				TKA □	127 / TRF77 □	YDA 90S4 □
				TKAF □	127 / TRF77 □	YDA 90S4 □
	0.73 □	1926 □	79200 □	TK □	127 / TRF77 □	YDA 90S4 □
				TKF □	127 / TRF77 □	YDA 90S4 □
				TKA □	127 / TRF77 □	YDA 90S4 □
				TKAF □	127 / TRF77 □	YDA 90S4 □
	0.80 □	1757 □	79200 □	TK □	127 / TRF77 □	YDA 90L4 □
	0.91 □	1541 □	79200 □	TKF □	127 / TRF77 □	YDA 90L4 □
				TKA □	127 / TRF77 □	YDA 90L4 □
				TKAF □	127 / TRF77 □	YDA 90L4 □
	1.1 □	1342 □	79200 □	TK □	127 / TRF77 □	YDA 100M4 □
	1.2 □	1177 □	79200 □	TKF □	127 / TRF77 □	YDA 100M4 □
	1.4 □	1025 □	79200 □	TKA □	127 / TRF77 □	YDA 100M4 □
				TKAF □	127 / TRF77 □	YDA 100M4 □
	1.6 □	899 □	79200 □	TK □	127 / TRF77 □	YDA 100L4 □
	1.8 □	790 □	79200 □	TKF □	127 / TRF77 □	YDT 100L4 □
	2.0 □	704 □	79200 □	TKA □	127 / TRF77 □	YDT 100L4 □
				TKAF □	127 / TRF77 □	YDT 100L4 □

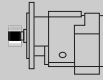
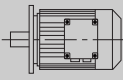


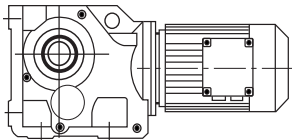
PERFORMANCE PARAMETER

M ₂ max (Nm)	N ₂ (r/min)	i	Fr ₂ (N)			
13000 □	2.3 □	610 □	79200 □	TK □	127 / TRF77 □	YDA 112M4 □
	2.6 □	549 □	79200 □	TKF □	127 / TRF77 □	YDA 112M4 □
				TKA □	127 / TRF77 □	YDA 112M4 □
				TKAF □	127 / TRF77 □	YDA 112M4 □
	3.0 □	477 □	79200 □	TK □	127 / TRF77 □	YDA 132S4 □
	3.4 □	418 □	79200 □	TKF □	127 / TRF77 □	YDA 132S4 □
				TKA □	127 / TRF77 □	YDA 132S4 □
				TKAF □	127 / TRF77 □	YDA 132S4 □
	2.6 □	536 □	79200 □	TK □	127 / TRF87 □	YDA 112M4 □
				TKF □	127 / TRF87 □	YDA 112M4 □
				TKA □	127 / TRF87 □	YDA 112M4 □
				TKAF □	127 / TRF87 □	YDA 112M4 □
	3.0 □	473 □	79200 □	TK □	127 / TRF87 □	YDA 132S4 □
	3.4 □	418 □	79200 □	TKF □	127 / TRF87 □	YDA 132S4 □
				TKA □	127 / TRF87 □	YDA 132S4 □
				TKAF □	127 / TRF87 □	YDA 132S4 □
	3.9 □	367 □	79200 □	TK □	127 / TRF87 □	YDA 132M4 □
	4.3 □	330 □	79200 □	TKF □	127 / TRF87 □	YDA 132M4 □
	5.0 □	287 □	79200 □	TKA □	127 / TRF87 □	YDA 132M4 □
				TKAF □	127 / TRF87 □	YDA 132M4 □
	5.7 □	253 □	79200 □	TK □	127 / TRF87 □	YDA 132ML4 □
				TKF □	127 / TRF87 □	YDA 132ML4 □
				TKA □	127 / TRF87 □	YDA 132ML4 □
				TKAF □	127 / TRF87 □	YDA 132ML4 □
18000 □	0.08 □	17679 □	112200 □	TK □	157 / TRF97 □	YDA 80K4 □
	0.09 □	15729 □	112200 □	TKF □	157 / TRF97 □	YDA 80K4 □
	0.09 □	14721 □	112200 □	TKA □	157 / TRF97 □	YDA 80K4 □
	0.10 □	13097 □	112200 □	TKAF □	157 / TRF97 □	YDA 80K4 □
	0.12 □	11368 □	112200 □			
	0.13 □	10114 □	112200 □			
	0.16 □	8718 □	112200 □			
	0.18 □	7734 □	112200 □			
	0.28 □	5074 □	112200 □	TK □	157 / TRF97 □	YDA 90S4 □
	0.31 □	4514 □	112200 □	TKF □	157 / TRF97 □	YDA 90S4 □
	0.35 □	3979 □	112200 □	TKA □	157 / TRF97 □	YDA 90S4 □
	0.40 □	3516 □	112200 □	TKAF □	157 / TRF97 □	YDA 90S4 □
	0.46 □	3051 □	112200 □			
	0.54 □	2610 □	112200 □	TK □	157 / TRF97 □	YDA 90L4 □
	0.61 □	2322 □	112200 □	TKF □	157 / TRF97 □	YDA 90L4 □
				TKA □	157 / TRF97 □	YDA 90L4 □
				TKAF □	157 / TRF97 □	YDA 90L4 □
	0.70 □	2029 □	112200 □	TK □	157 / TRF97 □	YDA 100M4 □
	0.78 □	1805 □	112200 □	TKF □	157 / TRF97 □	YDA 100M4 □
				TKA □	157 / TRF97 □	YDA 100M4 □
				TKAF □	157 / TRF97 □	YDA 100M4 □
	0.85 □	1659 □	112200 □	TK □	157 / TRF97 □	YDA 100M4 □
	1.0 □	1365 □	112200 □	TKF □	157 / TRF97 □	YDA 100M4 □
				TKA □	157 / TRF97 □	YDA 100M4 □
				TKAF □	157 / TRF97 □	YDA 100M4 □
	1.1 □	1229 □	112200 □	TK □	157 / TRF97 □	YDA 100L4 □
	1.3 □	1093 □	112200 □	TKF □	157 / TRF97 □	YDA 100L4 □
				TKA □	157 / TRF97 □	YDA 100L4 □
				TKAF □	157 / TRF97 □	YDA 100L4 □
	1.5 □	942 □	112200 □	TK □	157 / TRF97 □	YDA 112M4 □
	1.7 □	854 □	112200 □	TKF □	157 / TRF97 □	YDA 112M4 □
	1.9 □	756 □	112200 □	TKA □	157 / TRF97 □	YDA 112M4 □
				TKAF □	157 / TRF97 □	YDA 112M4 □

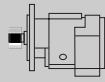
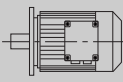
PERFORMANCE PARAMETER

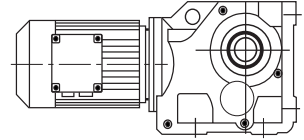


M _{2max} (Nm)	N ₂ (r/min)	i	Fr ₂ (N)			
18000□	2.2□	661□	112200□	TK□	157 / TRF97□	YDA 132S4□
	2.5□	567□	112200□	TKF□	157 / TRF97□	YDA 132S4□
				TKA□	157 / TRF97□	YDA 132S4□
				TKAF □	157 / TRF97□	YDA 132S4□
	2.8□	504□	112200□	TK□	157 / TRF97□	YDA 132M4□
	3.3□	434□	112200□	TKF□	157 / TRF97□	YDA 132M4□
				TKA□	157 / TRF97□	YDA 132M4□
				TKAF □	157 / TRF97□	YDA 132M4□
	3.8□	379□	112200□	TK□	157 / TRF97□	YDA 132ML4□
	4.3□	333□	112200□	TKF□	157 / TRF97□	YDA 132ML4□
				TKA□	157 / TRF97□	YDA 132ML4□
				TKAF □	157 / TRF97□	YDA 132ML4□
	5.0□	291□	112200□	TK□	157 / TRF97□	YDT 160M4□
				TKF□	157 / TRF97□	YDT 160M4□
				TKA□	157 / TRF97□	YDT 160M4□
				TKAF □	157 / TRF97□	YDT 160M4□
	3.7□	385□	112200□	TK□	157 / TRF107□	YDA 132ML4□
	4.4□	325□	112200□	TKF□	157 / TRF107□	YDA 132ML4□
				TKA□	157 / TRF107□	YDA 132ML4□
				TKAF □	157 / TRF107□	YDA 132ML4□
	4.8□	299□	112200□	TK□	157 / TRF107□	YDT 160M4□
				TKF□	157 / TRF107□	YDT 160M4□
				TKA□	157 / TRF107□	YDT 160M4□
				TKAF □	157 / TRF107□	YDT 160M4□
	5.8□	253□	112200□	TK□	157 / TRF107□	YDT 160L4□
	6.3□	230□	112200□	TKF□	157 / TRF107□	YDT 160L4□
	6.9□	213□	112200□	TKA□	157 / TRF107□	YDT 160L4□
				TKAF □	157 / TRF107□	YDT 160L4□
32000□	0.07□	19723□	150000□	TK□	167 / TRF97□	YDA 80K4□
	0.08□	17406□	150000□	TKH□	167 / TRF97□	YDA 80K4□
	0.09□	15000□	150000□			
	0.10□	13238□	150000□			
	0.12□	11573□	150000□			
	0.13□	10264□	150000□			
	0.16□	8628□	150000□	TK□	167 / TRF97□	YDA 80N4□
				TKH□	167 / TRF97□	YDA 80N4□
	0.21□	6562□	150000□	TK□	167 / TRF97□	YDA 90S4□
	0.26□	5355□	150000□	TKH□	167 / TRF97□	YDA 90S4□
	0.29□	4788□	150000□	TK□	167 / TRF97□	YDA 90L4□
	0.35□	4079□	150000□	TKH□	167 / TRF97□	YDA 90L4□
	0.42□	3376□	150000□	TK□	167 / TRF97□	YDA 100M4□
	0.51□	2755□	150000□	TKH□	167 / TRF97□	YDA 100M4□
	0.62□	2263□	150000□	TK□	167 / TRF97□	YDA 100L4□
				TKH□	167 / TRF97□	YDA 100L4□
	0.64□	2182□	150000□	TK□	167 / TRF97□	YDA 100L4□
				TKH□	167 / TRF97□	YDA 100L4□
	0.83□	1704□	150000□	TK□	167 / TRF97□	YDA 112M4□
	1.0□	1408□	150000□	TKH□	167 / TRF97□	YDA 112M4□
	1.1□	1296□	150000□	TK□	167 / TRF97□	YDA 132S4□
	1.3□	1101□	150000□	TKH□	167 / TRF97□	YDA 132S4□
	1.5□	944□	150000□	TK□	167 / TRF97□	YDA 132M4□
	1.7□	843□	150000□	TKH□	167 / TRF97□	YDA 132M4□
	1.9□	757□	150000□			
	2.3□	632□	150000□	TK□	167 / TRF97□	YDA 132ML4□
				TKH□	167 / TRF97□	YDA 132ML4□
	2.6□	561□	150000□	TK□	167 / TRF97□	YDT 160M4
	3.0	481	150000	TKH	167 / TRF97	YDT 160M4

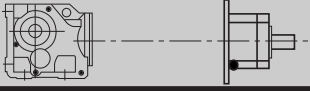


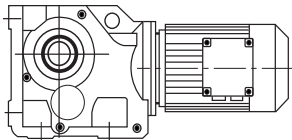
PERFORMANCE PARAMETER

M2max (Nm)	N ₂ (r/min)	i	Fr ₂ (N)			
32000 □	3.5 □	423 □	150000 □	TK □	167 / TRF97 □	YDT 160L4 □
	4.0 □	369 □	150000 □	TKH □	167 / TRF97 □	YDT 160L4 □
	4.6 □	318 □	150000 □	TK □	167 / TRF107 □	YDT 180M4 □
				TKH □	167 / TRF107 □	YDT 180M4 □
	5.3 □	278 □	150000 □	TK □	167 / TRF107 □	YDT 180L4 □
	6.0 □	244 □	150000 □	TKH □	167 / TRF107 □	YDT 180L4 □
	6.9 □	213 □	150000 □	TK □	167 / TRF107 □	YDT 200L4 □
	7.1 □	206 □	150000 □	TKH □	167 / TRF107 □	YDT 200L4 □
	8.2 □	180 □	150000 □			
	9.2 □	160 □	150000 □	TK □	167 / TRF107 □	YDT 225S4 □
50000 □				TKH □	167 / TRF107 □	YDT 225S4 □
	11 □	135 □	150000 □	TK □	167 / TRF107 □	YDT 225M4 □
	12 □	118 □	150000 □	TKH □	167 / TRF107 □	YDT 225M4 □
	0.04 □	32625 □	189900 □	TK □	187 / TRF97 □	YDA 80K4 □
	0.05 □	27165 □	189900 □	TKH □	187 / TRF97 □	YDA 80K4 □
	0.06 □	24353 □	189900 □			
	0.07 □	19144 □	189900 □			
	0.08 □	16978 □	189900 □			
	0.10 □	14272 □	189900 □	TK □	187 / TRF97 □	YDA 80N4 □
	0.11 □	13116 □	189900 □	TKH □	187 / TRF97 □	YDA 80N4 □
	0.12 □	11647 □	189900 □			
	0.13 □	10413 □	189900 □	TK □	187 / TRF97 □	YDA 90S4 □
	0.15 □	9363 □	189900 □	TKH □	187 / TRF97 □	YDA 90S4 □
	0.17 □	8126 □	189900 □			
	0.19 □	7343 □	189900 □	TK □	187 / TRF97 □	YDA 90L4 □
	0.21 □	6747 □	189900 □	TKH □	187 / TRF97 □	YDA 90L4 □
	0.24 □	5991 □	189900 □			
	0.26 □	5358 □	189900 □	TK □	187 / TRF97 □	YDA 100M4 □
	0.29 □	4817 □	189900 □	TKH □	187 / TRF97 □	YDA 100M4 □
	0.32 □	4370 □	189900 □			
	0.39 □	3609 □	189900 □	TK □	187 / TRF97 □	YDA 100L4 □
	0.46 □	3062 □	189900 □	TKH □	187 / TRF97 □	YDA 100L4 □
	0.56 □	2519 □	189900 □	TK □	187 / TRF97 □	YDA 112M4 □
	0.63 □	2268 □	189900 □	TKH □	187 / TRF97 □	YDT 112M4 □
	0.69 □	2054 □	189900 □			
	0.79 □	1821 □	189900 □	TK □	187 / TRF97 □	YDA 132S4 □
	0.89 □	1605 □	189900 □	TKH □	187 / TRF97 □	YDA 132S4 □
	1.0 □	1395 □	189900 □	TK □	187 / TRF97 □	YDA 132M4 □
	1.2 □	1196 □	189900 □	TKH □	187 / TRF97 □	YDA 132M4 □
	1.4 □	1046 □	189900 □	TK □	187 / TRF97 □	YDA 132ML4 □
	1.5 □	945 □	189900 □	TKH □	187 / TRF97 □	YDA 132ML4 □
	2.0 □	738 □	189900 □	TK □	187 / TRF97 □	YDT 160L4 □
	2.4 □	621 □	189900 □	TKH □	187 / TRF97 □	YDT 160L4 □
	2.8 □	527 □	189900 □	TK □	187 / TRF97 □	YDT 180M4 □
				TKH □	187 / TRF97 □	YDT 180M4 □
	1.7 □	835 □	189900 □	TK □	187 / TRF107 □	YDT 160M4 □
				TKH □	187 / TRF107 □	YDT 160M4 □
	2.0 □	729 □	189900 □	TK □	187 / TRF107 □	YDT 160L4 □
	2.4 □	622 □	189900 □	TKH □	187 / TRF107 □	YDT 160L4 □
	2.8 □	520 □	189900 □	TK □	187 / TRF107 □	YDT 180M4 □
	3.2 □	454 □	189900 □	TKH □	187 / TRF107 □	YDT 180M4 □
	4.1 □	355 □	189900 □	TK □	187 / TRF107 □	YDT 200L4 □
				TKH □	187 / TRF107 □	YDT 200L4 □
	5.6 □	261 □	189900 □	TK □	187 / TRF107 □	YDT 225S4 □
				TKH □	187 / TRF107 □	YDT 225S4 □
	6.6 □	221 □	189900 □	TK □	187 / TRF107 □	YDT 225M4 □
	7.6 □	193 □	189900 □	TKH □	187 / TRF107 □	YDT 225M4 □
	9.0 □	163 □	189900 □			



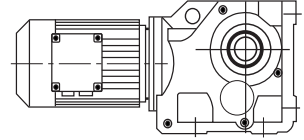
PERFORMANCE PARAMETER

M _{2max} (Nm)	N ₂ (r/min)	I	P _{1n} (kW)	Fr ₂ (N)	Fr ₁ (N)			
200□	13□	106.38□	0.32□	5640□	580□	TK	37	AD1
200□	14□	97.81□	0.35□	5640□	575□	TKF	37	AD1
200□	17□	83.69□	0.41□	5640□	560□	TKA	37	AD1
200□	19□	72.54□	0.46□	5520□	545□	TKAF	37	AD1
200□	21□	67.80□	0.50□	5360□	535□			
200□	24□	58.60□	0.57□	5020□	510□			
200□	28□	49.79□	0.66□	4660□	495□			
200□	31□	44.46□	0.74□	4420□	470□			
200□	37□	37.97□	0.86□	4100□	440□			
200□	39□	35.57□	0.92□	3970□	425□			
200□	47□	29.96□	1.1□	3650□	1710□	TK	37	AD2
200□	49□	28.83□	1.1□	3580□	1510□	TKF	37	AD2
200□	56□	24.99□	1.3□	3330□	1500□	TKA	37	AD2
195□	60□	23.36□	1.3□	3260□	1500□	TKAF	37	AD2
185□	69□	20.19□	1.5□	3110□	1500□			
180□	82□	17.15□	1.7□	2900□	1490□			
175□	91□	15.31□	1.8□	2780□	1490□			
165□	107□	13.08□	2.0□	2650□	1490□			
160□	115□	12.14□	2.1□	2600□	1270□			
160□	133□	10.49□	2.4□	2410□	1230□			
160□	157□	8.91□	2.8□	2200□	1200□			
155□	176□	7.96□	3.0□	2110□	1190□			
150□	206□	6.80□	3.4□	1980□	1170□			
145□	220□	6.37□	3.6□	1950□	1180□			
140□	261□	5.36□	4.1□	1810□	1140□			
125□	352□	3.98□	4.8□	1660□	1110□			
400□	11□	131.8T□	0.52□	5920□	1530□	TK	47	AD2
400□	12□	121.48'□	0.55□	5920□	1520□	TKF	47	AD2
400□	13□	104.37□	0.65□	5920□	1500□	TKA	47	AD2
400□	15□	90.86□	0.73□	5920□	1470□	TKAF	47	AD2
400□	16□	85.12*□	0.78□	5920□	1460□			
400□	19□	75.20'□	0.88□	5920□	1430□			
400□	20□	69.84□	0.94□	5920□	1400□			
400□	22□	63.30*□	1.0□	5920□	1380□			
400□	25□	56.83□	1.1□	5920□	1660□			
400□	29□	48.95*□	1.3□	5920□	1640□			
400□	30□	46.03*□	1.4□	5920□	1640□			
400□	35□	39.61□	1.6□	5920□	1620□			
400□	40□	35.39□	1.8□	5920□	1600□			
400□	45□	31.30□	2.0□	5700□	1290□			
400□	48□	29.32□	2.2□	5520□	1280□			
400□	54□	25.91□	2.4□	5170□	1250□			
400□	58□	24.06□	2.6□	4970□	1230□			
400□	64□	21.81□	2.9□	4710□	1220□			
400□	72□	19.58□	3.2□	4440□	1190□			
380□	83□	16.86□	3.5□	4230□	1190□			
380□	88□	15.86□	3.7□	4080□	1170□			
360□	103□	13.65□	4.1□	3890□	1170□			
350□	115□	12.19□	4.5□	3720□	1140□			
280□	119□	11.77□	3.7□	4060□	1020□			
280□	133□	10.56□	4.1□	3830□	980□			
280□	154□	9.10□	4.8□	3540□	930□			
270□	164□	8.56□	4.9□	3500□	1960□	TK	47	AD3
250□	190□	7.36□	5.3□	3390□	1970□	TKF	47	AD3
240□	213□	6.58□	5.7□	3270□	1960□	TKA	47	AD3
230□	241□	5.81□	6.2□	3140□	1960□	TKAF	47	AD3
205□	302□	4.64	6.8	2°00	1920			

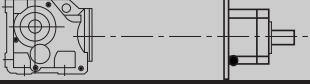


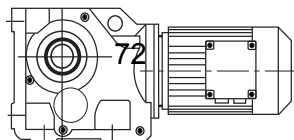
PERFORMANCE PARAMETER

M ₂ max (Nm)	N ₂ (r/min)	I	P _{1n} (kW)	Fr ₂ (N)	Fr ₁ (N)			
600□	9.7□	145.14'□	0.69□	7630□	1270□	TK	57	AD2
600□	11□	123.85□	0.80□	7630□	1230□	TKF	57	AD2
600□	13□	108.29□	0.91□	7630□	1200□	TKA	57	AD2
600□	14□	102.88*□	0.96□	7630□	1200□	TKAF	57	AD2
600□	16□	90.26*□	1.1□	7630□	1600□			
600□	18□	76.56*□	1.3□	7630□	1590□			
600□	20□	69.12□	1.4□	7630□	1580□			
600□	23□	60.81*□	1.6□	7630□	1570□			
600□	24□	57.42*□	1.7□	7630□	1560□			
600□	29□	48.89□	2.0□	7630□	1530□			
600□	32□	44.43□	2.2□	7630□	1520□			
600□	36□	38.49□	2.5□	7630□	1490□			
600□	39□	35.70□	2.6□	7630□	1150□			
600□	46□	30.28□	3.1□	7310□	1110□			
600□	51□	27.34□	3.4□	6930□	1090□			
600□	58□	24.05□	3.9□	6480□	1060□			
600□	62□	22.71□	4.1□	6280□	1040□			
575□	72□	19.34□	4.6□	5910□	1010□			
555□	80□	17.57□	4.9□	5740□	1010□			
535□	92□	15.22□	5.5□	5430□	2020□	TK	57	AD3
510□	106□	13.25□	6.0□	5190□	2000□	TKF	57	AD3
415□	117□	11.92□	5.4□	5150□	1760□	TKA	57	AD3
415□	124□	11.26□	5.7□	4990□	1730□	TKAF	57	AD3
405□	146□	9.59□	6.6□	4650□	1680□			
390□	161□	8.71□	7.0□	4520□	1680□			
365□	186□	7.55□	7.5□	4360□	1680□			
345□	213□	6.57□	8.2□	4190□	1670□			
300□	298□	4.69□	9.8□	3800□	1630□			
820□	9.7□	144.79*□	0.92□	10300□	870□	TK	67	AD2
820□	11□	123.54□	1.1□	10300□	1530□	TKF	67	AD2
820□	13□	108.03□	1.2□	10300□	1510□	TKA	67	AD2
820□	14□	102.62□	1.3□	10300□	1510□	TKAF	67	AD2
820□	16□	90.04□	1.5□	10300□	1490□			
820□	18□	76.37□	1.7□	10300□	1470□			
820□	20□	68.95□	1.9□	10300□	1460□			
820□	23□	60.66□	2.2□	10300□	1440□			
820□	24□	57.28□	2.3□	10300□	1430□			
820□	29□	48.77□	2.7□	10300□	1400□			
820□	32□	44.32□	2.9□	10300□	1380□			
800□	36□	38.39□	3.3□	10500□	1360□			
820□	39□	35.62□	3.6□	10300□	870□			
820□	46□	30.22□	4.3□	10300□	1840□	TK	67	AD3
820□	51□	27.28□	4.7□	10300□	1810□	TKF	67	AD3
800□	58□	24.00□	5.2□	10500□	1800□	TKA	67	AD3
780□	62□	22.66□	5.4□	10700□	1810□	TKA F	67	AD3
760□	73□	19.30□	6.1□	10800□	1760□			
740□	80□	17.54□	6.6□	11000□	1750□			
700□	92□	15.19□	7.2□	11300□	1740□			
670□	106□	13.22□	7.9□	11500□	1710□			
530□	112□	12.48□	6.6□	12300□	1550□			
500□	132□	10.63□	7.3□	11800□	1540□			
480□	145□	9.66□	7.8□	11500□	1540□			
440□	167□	8.37□	8.2□	11100□	1570□			
420□	192□	7.28□	9.0□	10700□	1550□			
350□	269□	5.20□	10.3□	9870□	1560□			
1240□	7.3□	192.18□	1.1□	17200□	575□	TK	77	AD2
1160□	7.8□	179.37□	1.1□	17600□	690□	TKF	77	AD2
1550□	9.1□	154.02□	1.6□	15400□	1360□	TKA	77	AD2
1550□	10□	135.28□	1.8□	15400□	1350□	TKA F	77	AD2
1550□	11□	128.52□	1.9□	15400□	1350□			
1550□	12□	113.56□	2.2□	15400□	1310□			
1550□	14□	97.05□	2.5□	15400□	1280□			
1550□	16□	88.97□	2.7□	15400□	1270□			

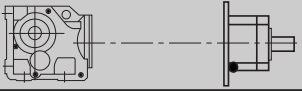


PERFORMANCE PARAMETER

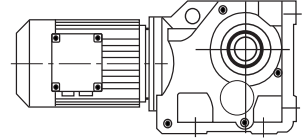
M _{2max} (Nm)	N ₂ (r/min)	I	P _{1n} (kW)	Fr ₂ (N)	Fr ₁ (N)			
1550□	18□	78.07□	3.1□	15400□	1250□	TK	77	AD2
1550□	19□	73.99□	3.3□	15400□	1240□	TKF	77	AD2
1550□	22□	64.75□	3.8□	15400□	1210□	TKA	77	AD2
1550□	24□	58.34□	4.2□	15400□	1170□	TKAF	77	AD2
1550□	27□	51.18□	4.7□	15400□	1140□			
1550□	31□	45.16□	5.4□	15400□	1090□			
1550□	35□	40.04□	6.1□	15400□	2090□	TK	77	AD3
1490□	36□	38.39□	6.1□	15800□	1450□	TKF	77	AD3
1410□	40□	35.20□	6.2□	16300□	1510□	TKA	77	AD3
1550□	45□	30.89□	7.8□	15400□	1230□	TKAF	77	AD3
1550□	48□	29.27□	8.3□	15400□	3290□	TK	77	AD4
1550□	55□	25.62□	9.4□	15400□	3240□	TKF	77	AD4
1550□	61□	23.08□	10.5□	15400□	3170□	TKA	77	AD4
1500□	69□	20.25□	11.6□	15700□	3140□	TKAF	77	AD4
1450□	78□	17.87□	12.7□	16100□	3120□			
1400□	88□	15.84□	13.8□	15500□	3090□			
1340□	104□	13.52□	15.5□	14800□	3050□			
1000□	113□	12.36□	12.6□	15100□	2860□			
990□	129□	10.84□	14.2□	14400□	2790□			
940□	146□	9.56□	15.3□	13900□	2790□			
890□	165□	8.48□	16.4□	13500□	2800□			
785□	193□	7.24□	16.9□	13200□	2890□			
2700□	7.1□	197.37□	2.2□	28100□	1170□	TK	87	AD2
2700□	8□	174.19□	2.4□	28100□	1150□	TKF	87	AD2
2700□	8.5□	164.34*□	2.6□	28100□	1140□	TKA	87	AD2
2700□	9.5□	147.32*□	2.9□	28100□	1120□	TKAF	87	AD2
2700□	11□	126.91*□	3.4□	28100□	1090□			
2700□	12□	115.82□	3.7□	28100□	1080□			
2700□	14□	102.71*□	4.1□	28100□	1060□			
270□	16□	86.34□	4.9□	28100□	1010□			
2700□	18□	79.34□	5.4□	28100□	1940□	TK	87	AD3
2700□	20□	70.46□	6.0□	27400□	1900□	TKF	87	AD3
2700□	22□	63.00*□	6.8□	26200□	1870□	TKA	87	AD3
2700□	25□	56.64□	7.5□	25000□	1830□	TKAF	87	AD3
2700□	28□	49.16□	8.6□	23500□	1770□			
2600□	32□	44.02□	9.2□	22800□	1760□			
2500□	38□	36.52*□	10.7□	21400□	1700□			
2700□	45□	31.39□	13.4□	19200□	2750□	TK	87	AD4
2600□	50□	27.88□	14.5□	18500□	2750□	TKF	87	AD4
2500□	56□	24.92□	15.6□	18000□	2750□	TKA	87	AD4
2300□	62□	22.41□	16.0□	17900□	2840□	TKAF	87	AD4
2300□	72□	19.45□	18.4□	16800□	2730□			
2200□	80□	17.42□	20□	16300□	2730□			
1800□	88□	16.00□	17.5□	16'000□	2020□			
2100□	97□	14.45□	23□	15300□	2640□			
2000□	111□	12.56□	25□	14800□	2620□			
1500□	125□	11.17□	21□	14900□	2370□			
1500□	140□	10.00□	23□	14200□	5570□	TK	87	AD5
1400□	169□	8.29□	26□	13500□	5520□	TKF	87	AD5
1300□	194□	7.21□	28□	13200□	5570□	TKA	87	AD5
						TKAF	87	AD5
4300□	8□	176.05*□	3.8□	40000□	1780□	TK	97	AD3
4300□	9.1□	153.21*□	4.4□	40000□	1760□	TKF	97	AD3
4300□	10□	140.28□	4.8□	40000□	1740□	TKA	97	AD3
4300□	11□	123.93'□	5.5□	40000□	1720□	TKAF	97	AD3
4300□	13□	105.13□	6.4□	40000□	1680□			
4300□	14□	96.80□	7.0□	40000□	1650□			
4300□	16□	86.52□	7.8□	38800□	1610□			
4300□	18□	77.89*□	8.6□	37100□	1570□			
4300□	20□	70.54□	9.5□	35600□	1530□			
4300□	22□	62.55□	10.8□	33800□	3520□	TK	97	AD4
4300□	25□	56.55□	12.0□	32300□	3470□	TKF	97	AD4
4300□	29□	47.93*□	14.0□	30000□	3390□	TKA	97	AD4
4300□	33□	41.87□	16.0□	28300□	3320□	TKAF	97	AD4



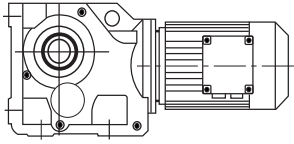
PERFORMANCE PARAMETER

M _{2max} (Nm)	N ₂ (r/min)	I	P _{1n} (kW)	Fr ₂ (N)	Fr ₁ (N)			
4300□	37□	38.30□	17.5□	27100□	5270□	TK	97	AD5
4300□	41□	34.23□	20□	25700□	5200□	TKF	97	AD5
4300□	45□	30.82□	22□	24500□	5130□	TKA	97	AD5
4300□	50□	27.91□	24□	23300□	5050□	TKAF	97	AD5
4300□	57□	24.75□	27□	22000□	4960□			
4300□	63□	22.37□	30□	20900□	4860□			
4300□	74□	18.96□	35□	19100□	4660□			
4300□	85□	16.56□	40□	17800□	4500□			
4300□	101□	13.85□	48□	16100□	7180□	TK	97	AD6
3890□	117□	11.99□	50□	16200□	7280□	TKF	97	AD6
						TKA	97	AD6
						TKAF	97	AD6
2870□	134□	10.41□	43□	16400□	4300□	TK	97	AD5
						TKF	97	AD5
						TKA	97	AD5
						TKAF	97	AD5
2660□	161□	8.71□	48□	15800□	7230□	TK	97	AD6
						TKF	97	AD6
						TKA	97	AD6
						TKAF	97	AD6
8000□	9.8□	143.4r□	8.8□	65000□	3090□	TK	107	AD4
8000□	12□	121.46□	10.3□	61700□	3030□	TKF	107	AD4
8000□	12□	112.41*□	11.1□	59700□	2980□	TKA	107	AD4
8000□	14□	100.75□	12.4□	57000□	2940□	TKAF	107	AD4
8000□	15□	90.96*□	13.7□	54600□	2850□			
8000□	17□	82.61□	15.1□	52400□	2810□			
8000□	19□	73.30□	17□	49700□	2740□			
8000□	21□	66.52*□	19□	47600□	2680□			
8000□	24□	57.17*□	22□	44400□	2560□			
7840□	28□	49.90□	24□	42200□	2500□			
7360□	33□	42.33*□	27□	40500□	5720□	TK	107	AD5
7200□	38□	37.0Cr□	30□	38500□	5640□	TKF	107	AD5
7200□	43□	32.69□	34□	36300□	3290□	TKA	107	AD5
6800□	45□	31.28*□	34□	36700□	5620□	TKAF	107	AD5
7200□	48□	29.00□	39□	34000□	6580□	TK	107	AD6
7200□	53□	26.32□	43□	32000□	6460□	TKF	107	AD6
7200□	62□	22.62□	49□	28900□	6250□	TKA	107	AD6
7170□	71□	19.74□	56□	26300□	6010□	TKAF	107	AD6
6080□	84□	16.75□	56□	29000□	6470□			
5310□	96□	14.64□	56□	29500□	6770□			
4300□	104□	13.43□	49□	29200□	6220□			
4260□	119□	11.73□	56□	27600□	6010□			
3610□	141□	9.94□	56□	27800□	6470□			
3150□	161□	8.69□	56□	27800□	6780□			
13000□	9.6□	146.07□	13.9□	81300□	2410□	TK	127	AD4
13000□	10□	136.14□	14.9□	81300□	2340□	TKF	127	AD4
13000□	11□	122.48□	16.6□	81300□	2250□	TKA	127	AD4
13000□	13□	110.18□	18.4□	81300□	2110□	TKAF	127	AD4
13000□	16□	89.89□	23□	75100□	5380□	TK	127	AD5
13000□	17□	81.98□	25□	72100□	5320□	TKF	127	AD5
13000□	20□	70.95*□	29□	67700□	5200□	TKA	127	AD5
13000□	22□	62.60□	32□	64000□	5100□	TKAF	127	AD5
13000□	26□	54.07□	37□	59900□	4960□			
13000□	29□	47.82□	42□	56500□	4820□			
13000□	35□	40.19□	50□	52000□	7530□	TK	127	AD6
						TKF	127	AD6
						TKA	127	AD6
						TKAF	127	AD6
13000□	39□	36.25□	55□	49400□	11300□	TK	127	AD7
13000□	45□	31.37□	64□	45900□	10300□	TKF	127	AD7
13000□	51□	27.68□	72□	43000	9460	TKA	127	AD7□
13000□	59	23.91	84	39800	8300	TKAF	127	AD7

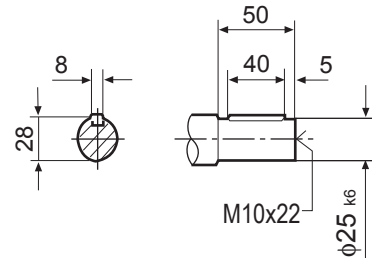
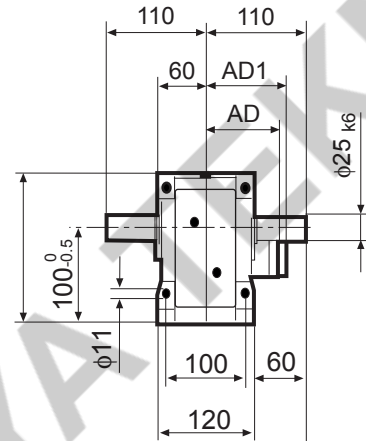
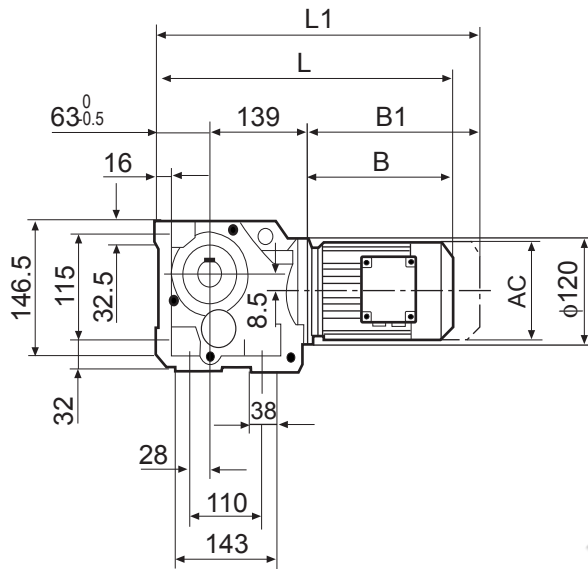
PERFORMANCE PARAMETER



M _{2max} (Nm)	N ₂ (r/min)	i	P _{1n} (kW)	Fr ₂ (N)	Fr ₁ (N)			
13000□	66□	21.15□	95□	37200□	24500□	TK	127	AD8
13000□	79□	17.77	113□	33600□	24100□	TKF	127	AD8
12100□	98□	14.35	130□	31800□	23900□	TKA	127	AD8
8530□	110□	12.79	103□	35400□	24000□	TKAF	127	AD8
8000□	130□	10.74	115□	33900□	24000□			
7230□	161□	8.68	129□	32500□	24000□			
18000□	9.3□	150.41	19□	115200□	5200□	TK	157	AD5
18000□	11□	122.39	23□	106500□	5080□	TKF	157	AD5
18000□	14□	100.22	28□	98000□	4890□	TKA	157	AD5
18000□	15□	91.65	31□	94400□	4820□	TKAF	157	AD5
18000□	18□	79.75	35□	88900□	4700□			
18000□	20□	70.38	40□	84200□	4580□			
18000□	23□	61.02	46□	79000□	4420□			
18000□	26□	54.29	52□	74900□	7230□	TK	157	AD6
						TKF	157	AD6
						TKA	157	AD6
						TKAF	157	AD6
18000□	30□	46.79	60□	70000□	17100□	TK	157	AD7
18000□	37□	38.02	73□	63300□	16800□	TKF	157	AD7
						TKA	157	AD7
						TKAF	157	AD7
17700□	45□	31.30	87□	58200□	23600□	TK	157	AD8
16000□	51□	27.62	89□	58300□	24000□	TKF	157	AD8
18000□	58□	23.95	116□	50000□	23000□	TKA	157	AD8
18000□	66□	21.31	130□	47000□	22700□	TKAF	157	AD8
18000□	76□	18.37	151□	43200□	22300□			
18000□	94□	14.92	186□	38200□	21500□			
17000□	111□	12.65	207□	36700□	21300□			
29500□	8.5□	164.50	28□	150000□	2980□	TK	167	AD5
						TKH	167	AD5
32000□	10□	134.99	37□	150000□	5910□	TK	167	AD6
32000□	13□	109.83	45□	150000□	5450□	TKH	167	AD6
32000□	16□	87.86	56□	147200□	13300□	TK	167	AD7
32000□	18□	78.14	63□	140100□	12000□	TKH	167	AD7
32000□	21□	68.07	73□	132000□	12000□			
32000□	23□	60.74	81□	125600□	11200□			
32000□	27□	51.77	95□	117000□	25000□	TK	167	AD8
32000□	33□	42.89	115□	107400□	24600□	TKH	167	AD8
32000□	38□	36.61	135□	99700□	24200□			
28100□	43□	32.25	134□	100900□	21400□			
25100□	49□	28.77	135□	101300□	22100□			
32000□	57□	24.52	201□	81700□	19200□			
31000□	69□	20.32	235□	75900□	18800□			
28100□	81□	17.34	250□	75000□	19100□			
50000□	7.8□	179.86	43□	189900□	6070□	TK	187	AD6
50000□	8.5□	165.21	47□	189900□	5930□	TKH	187	AD6
50000□	9.7□	144.59	54□	189900□	5620□			
50000□	11□	129.69	60□	188200□	14400□	TK	187	AD7
50000□	12□	112.60	69□	177200□	13600□	TKH	187	AD7
50000□	14□	102.16	76□	169900□	13200□			
50000□	16□	88.00	89□	159000□	25500□	TK	187	AD8
50000□	19□	73.96	105□	147000□	25200□	TKH	187	AD8
50000□	22□	64.04	120□	137500□	24900□			
50000□	26□	53.36	145□	126100□	24400□			
50000□	31□	45.50*	170□	116600□	23900□			
40000□	33□	42.51	145□	128200□	20900□	TK	187	AD8
40000□	36□	38.57	160□	122700□	20700□	TKH	187	AD8
46400□	42□	33.23	216□	104700□	18700□			
43300□	50	27.92	239□	100500□	18800□			
39100□	58	24.18	250	99900□	19300□			
32600□	69	20.15	250	101500□	20200□			
32000□	82	17.18	287	9530□	19600□			

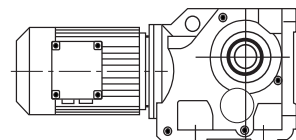


TK37..

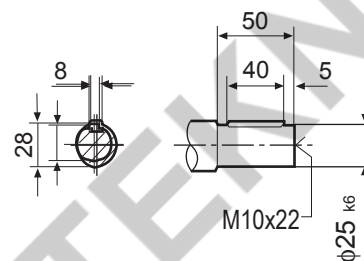
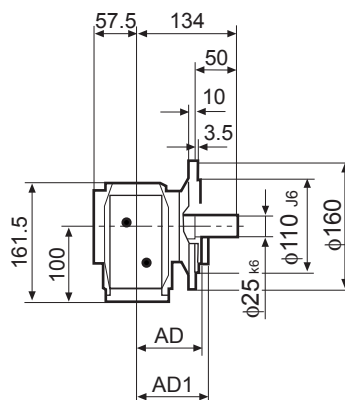
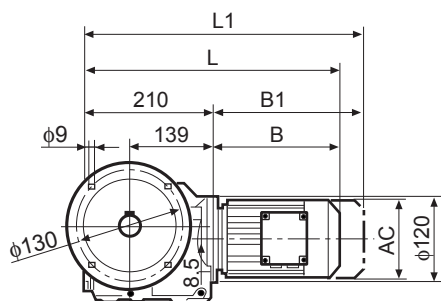


	Y 63..	Y 71D..	Y80..	Y90..	Y100M	Y100L			
AC	132□	145□	145□	197□	197□	197			
AD	105□	122□	122□	154□	166□	166			
AD1	105□	127□	127□	161□	166□	166			
B	191□	206□	256□	276□	328□	358			
B1	246□	269□	319□	361□	413□	443			
L	393□	408□	458□	478□	530□	560			
L1	448□	471□	521□	563□	615	645			

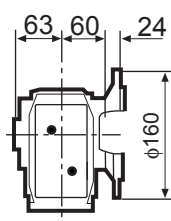
OUTLINE DIMENSION SHEET



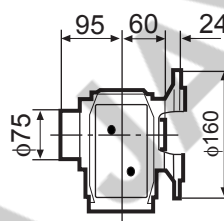
TKF37..



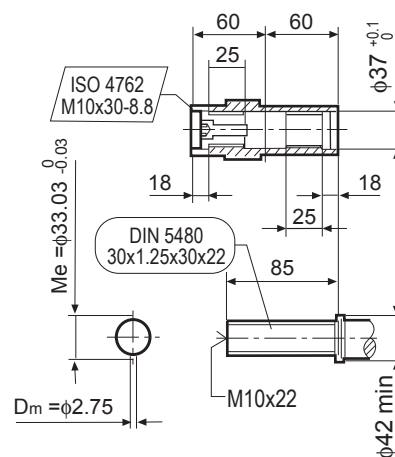
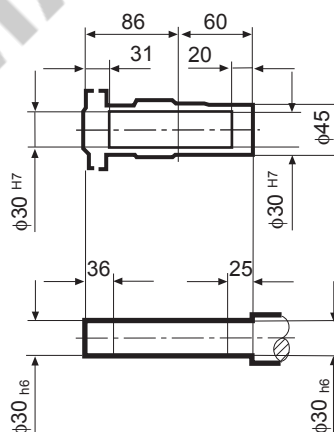
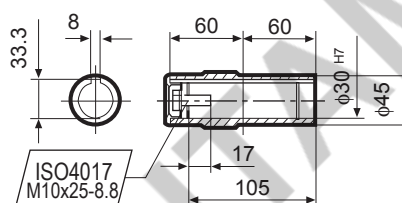
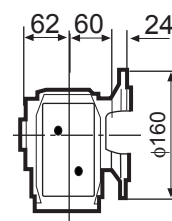
TKAF37..



TKHF37..

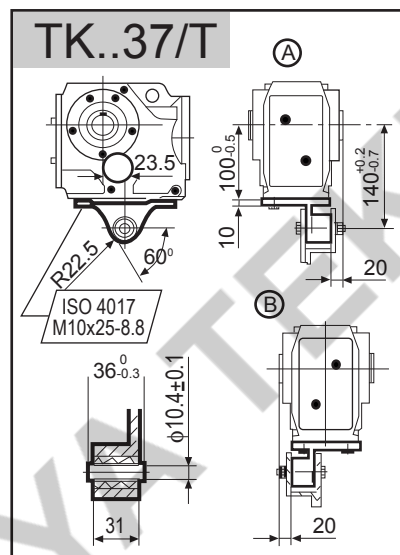
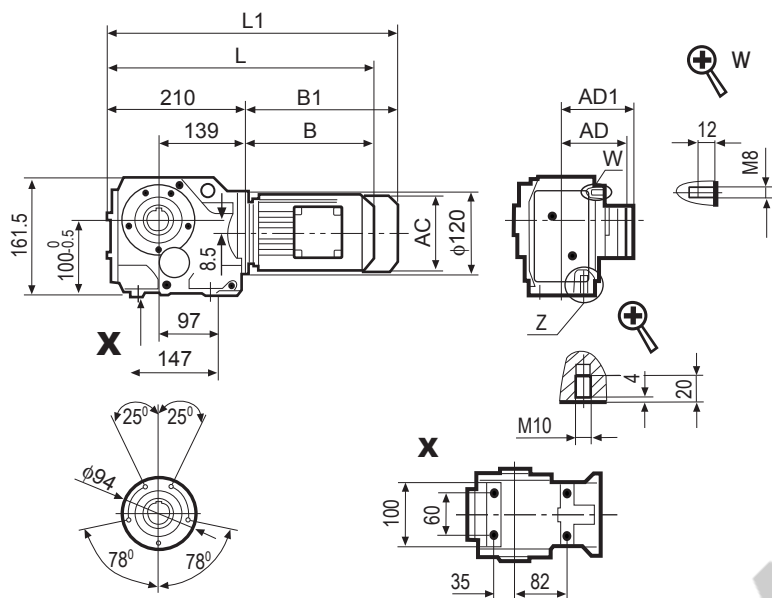


TKVF37..

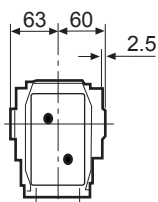


	Y63..	Y71D	Y80..	Y90..	Y100M	Y100L			
AC	132□	145□	145□	197□	197□	197			
AD	105□	122□	122□	154□	166□	166			
AD1	105□	127□	127□	161□	166□	166			
B	191□	206□	256□	276□	328□	358			
B1	246□	269□	319□	361□	413□	443			
L	401□	416□	466□	486□	538□	568			
L1	456□	479□	529□	571□	623	653			

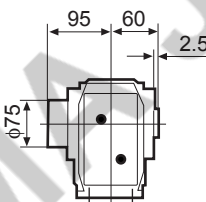
TKA37..



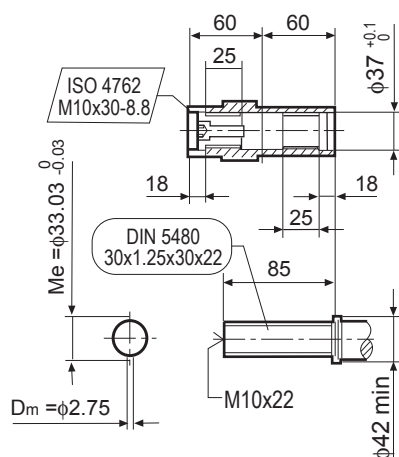
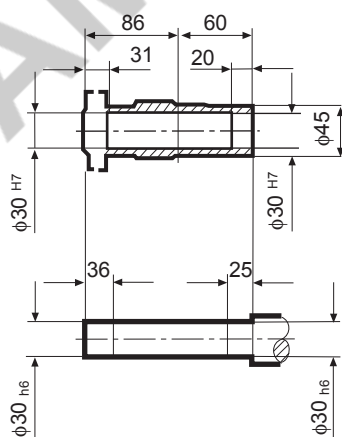
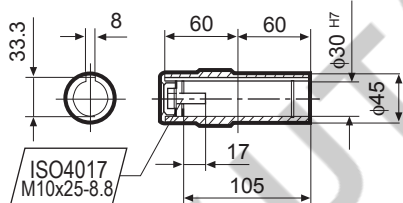
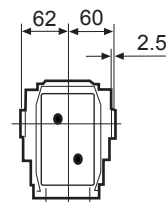
TKA37..



TKH37..

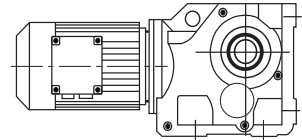


TKV37..

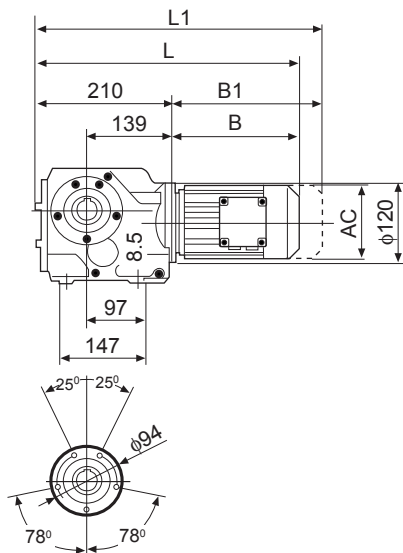


	Y63..	Y71D	Y80..	Y90...	Y100M	Y100L			
AC	132□	145□	145□	197□	197□	197			
AD	105□	122□	122□	154□	166□	166			
AD1	105□	127□	127□	161□	166□	166			
B	191□	206□	256□	276□	328□	358			
B1	246□	269□	319□	361□	413□	443			
L	401□	416□	466□	486□	53□	568			
L1	456□	479□	529□	571□	623	653			

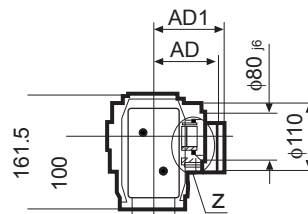
OUTLINE DIMENSION SHEET



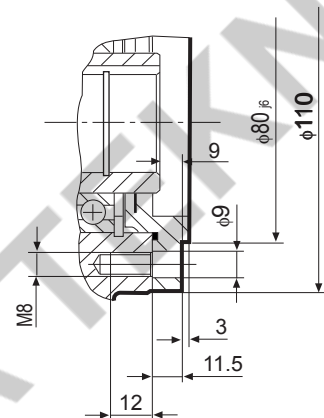
TKAZ37..



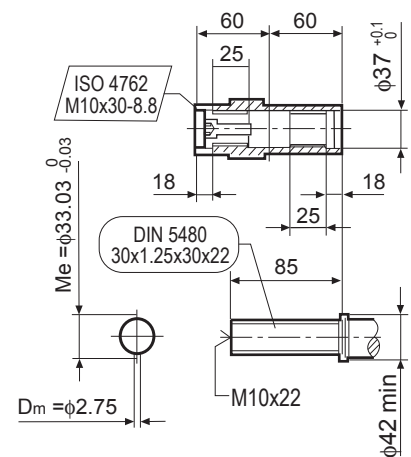
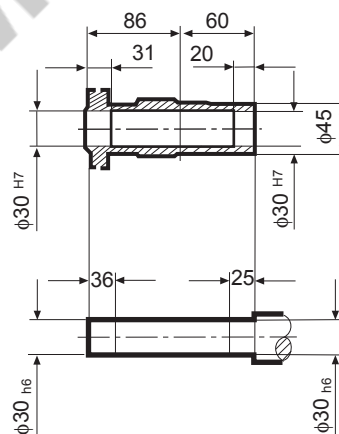
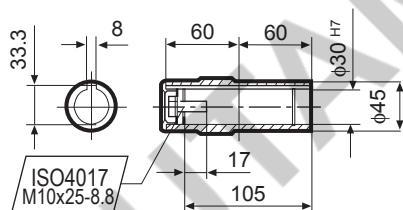
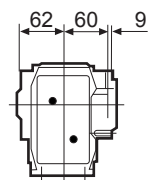
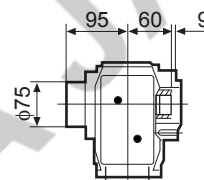
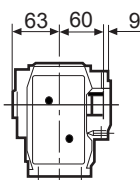
TKAZ37..



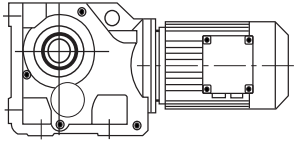
TKHZ37..



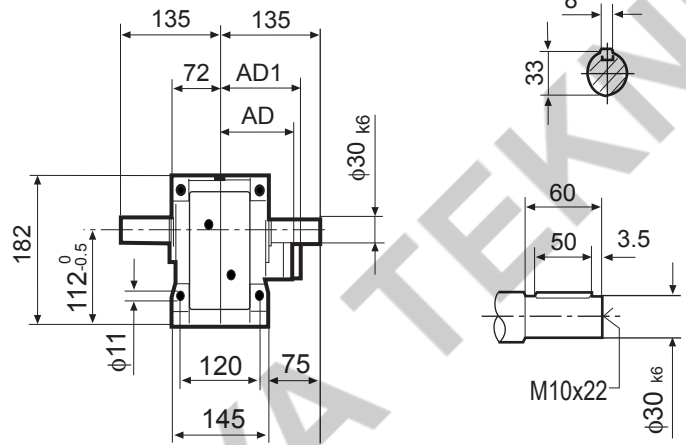
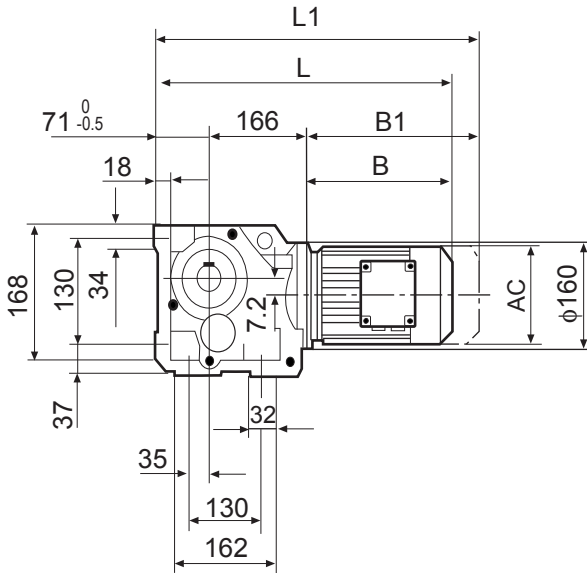
TKVZ37..



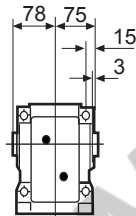
	Y63..	Y71D	Y80..	Y90..	Y100M	Y100L			
AC	132□	145□	145□	197□	197□	197			
AD	105□	122□	122□	154□	166□	166			
AD1	105□	127□	127□	161□	166□	166			
B	191□	206□	256□	276□	328□	358			
B1	246□	269□	319□	361□	413□	443			
L	401□	416□	466□	486□	538□	568			
L1	456□	479□	529□	571□	623	653			



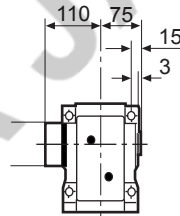
TK 47..



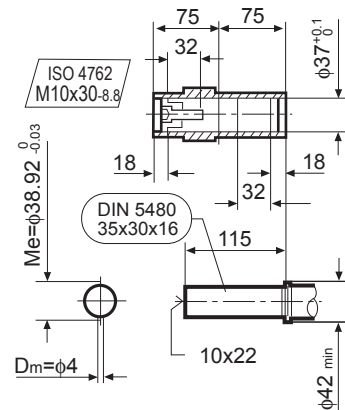
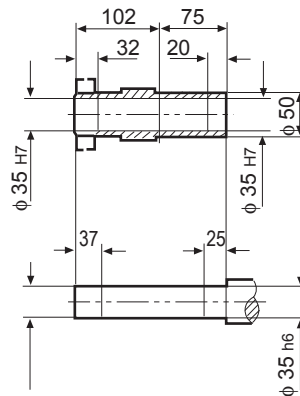
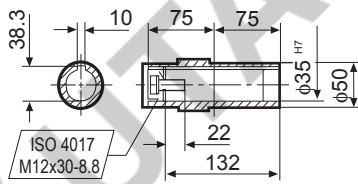
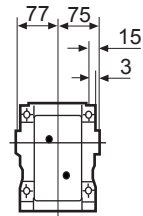
TKA 47B..



TKH 47B..

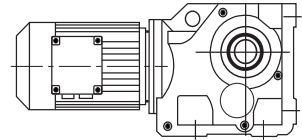


TKV 47B..

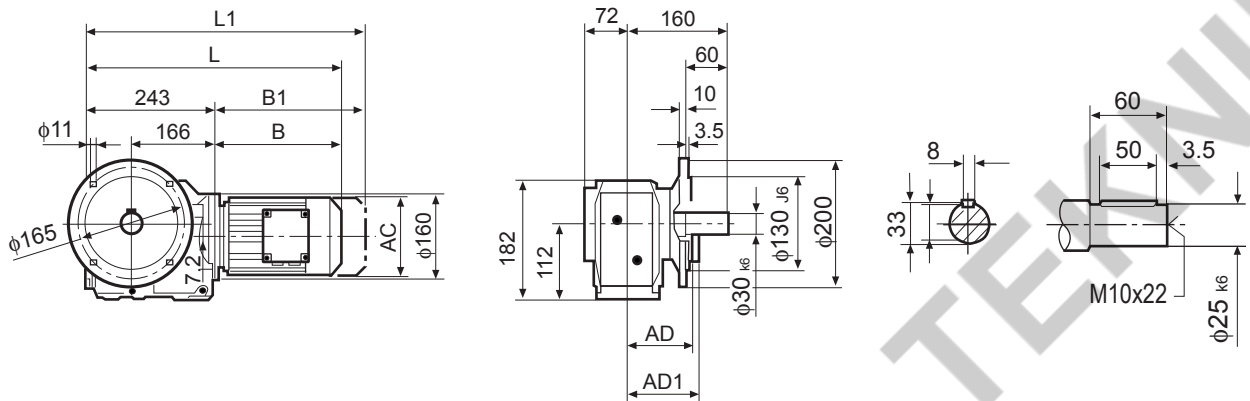


	Y63..	Y71D	Y 80..	Y90..	Y100M	Y100L			
AC	132□	145□	145□	197□	197□	197			
AD	105□	122□	122□	154□	166□	166			
AD1	105□	127□	127□	161□	166□	166			
B	185□	199□	249□	269□	319□	349			
B1	240□	263□	313□	354□	404□	434			
L	422□	436□	486□	506□	556□	586			
LI	477□	500□	550□	591□	641	671			

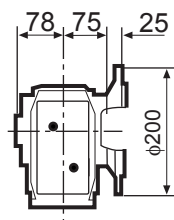
OUTLINE DIMENSION SHEET



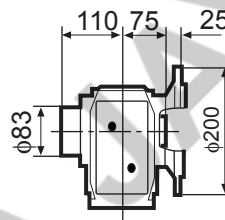
TKF47..



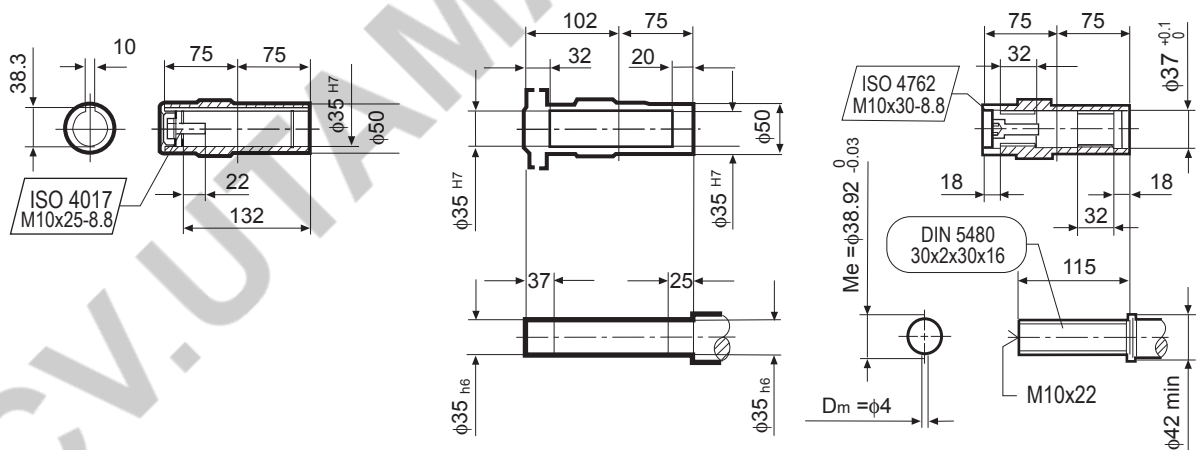
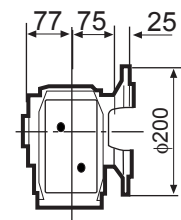
TKAF47..



TKHF47..

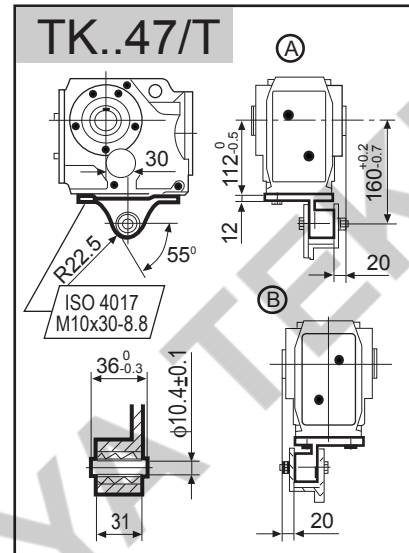
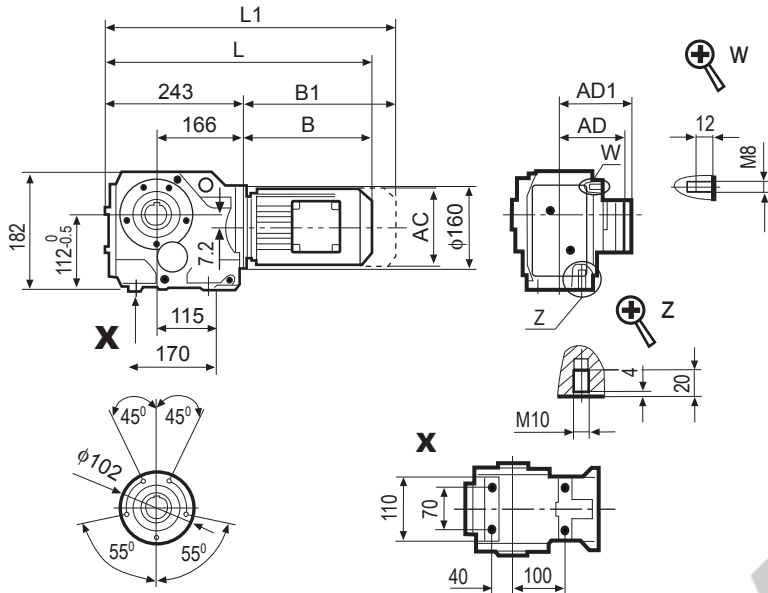


TKVF47..

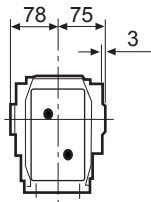


	Y63..	Y71D	Y80..	Y90..	Y100M	Y100L			
AC	132□	145□	145□	197□	197□	197			
AD	105□	122□	122□	154□	166□	166			
AD1	105□	127□	127□	161□	166□	166			
B	185□	199□	249□	269□	319□	349			
B1	240□	263□	313□	354□	404□	434			
L	428□	442□	492□	512□	562□	592			
L1	483□	506□	556□	597□	647	677			

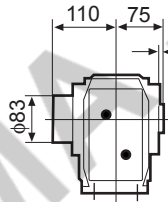
TKA 47..



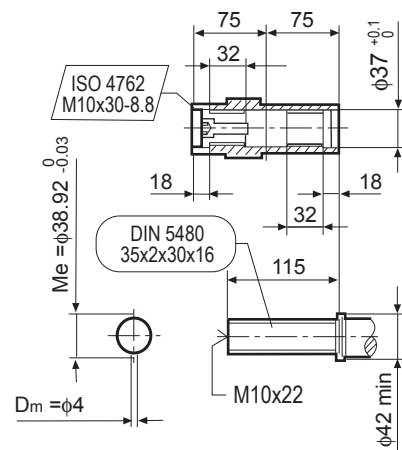
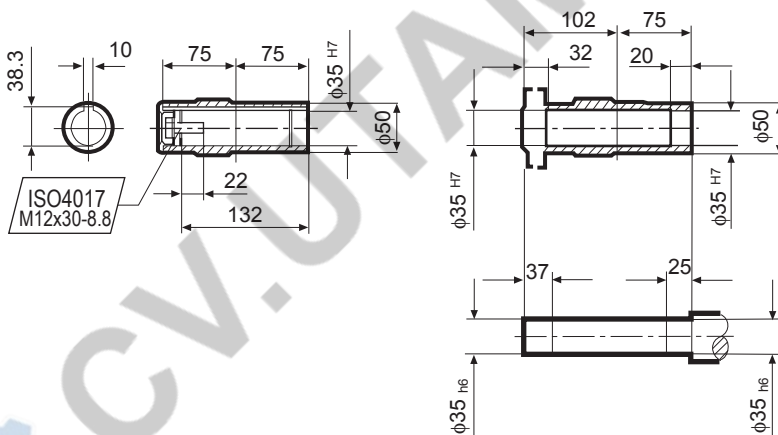
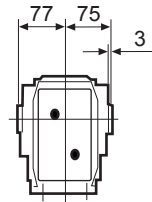
TKA47..



TKH47..

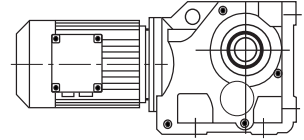


TKV47..

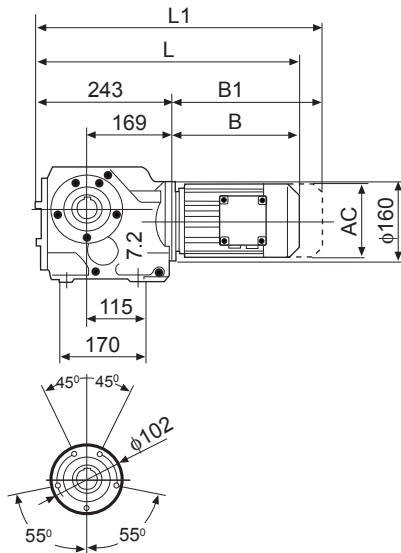


	Y63..□	Y71D□	Y80..□	Y90..□	Y100M□	Y100L			
AC□	132□	145□	145□	197□	197□	197			
AD□	105□	122□	122□	154□	166□	166			
AD1□	105□	127□	127□	161□	166□	166			
B□	185□	199□	249□	269□	319□	349			
B1□	240□	263□	313□	354□	404□	434			
L□	428□	442□	492□	512□	562□	592			
L1□	483□	506□	556□	597□	647	677			

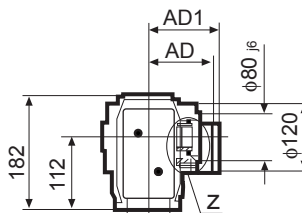
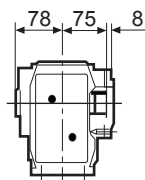
OUTLINE DIMENSION SHEET



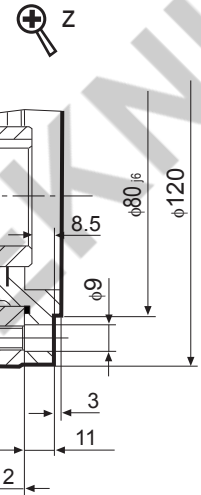
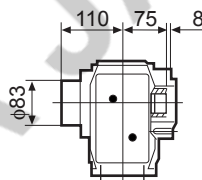
TKAZ 47..



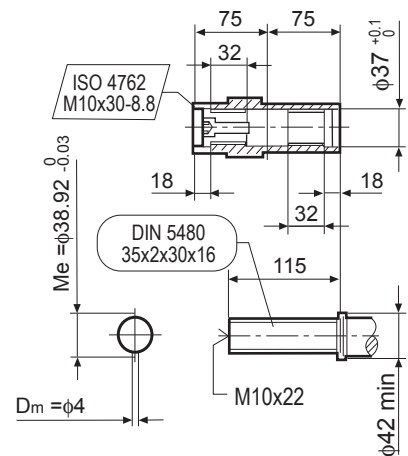
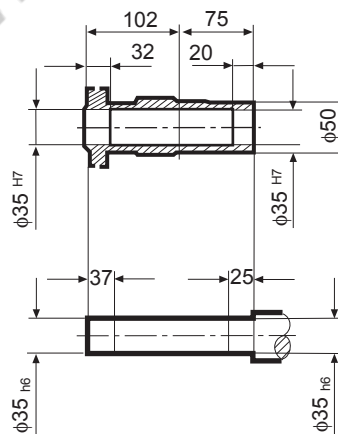
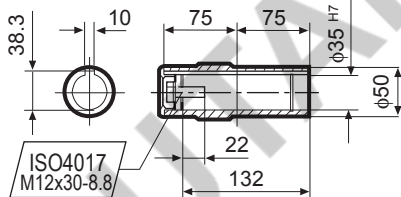
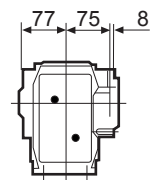
TKAZ 47..



TKHZ 47..

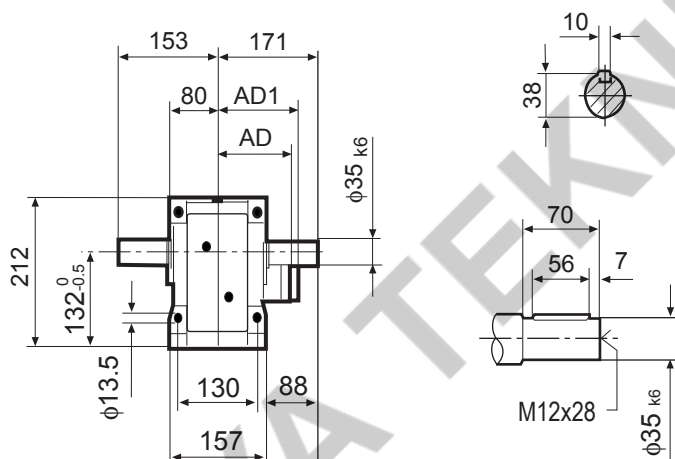
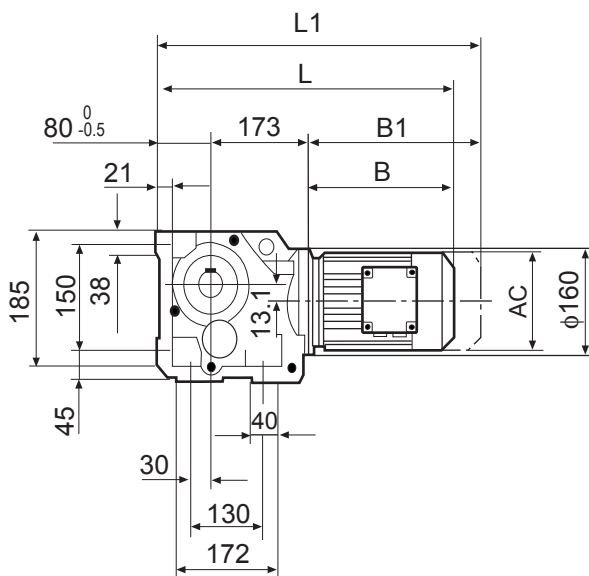


TKVZ 47..

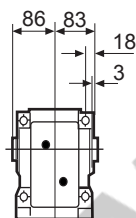


	Y63..□	Y71D□	Y80..□	Y90..□	Y100M□	Y100L..			
AC□	132□	145□	145□	197□	197□	197			
AD□	105□	122□	122□	154□	166□	166□			
AD1□	105□	127□	127□	161□	166□	166			
B□	185□	199□	249□	269□	319□	349			
B1□	240□	263□	313□	354□	404□	434			
L□	428□	442□	492□	512□	562□	592□			
L1□	483□	506□	556□	597□	647	677			

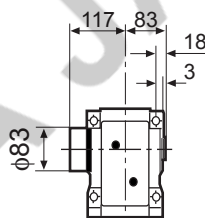
TK 57..



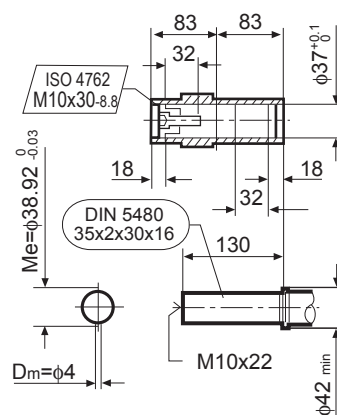
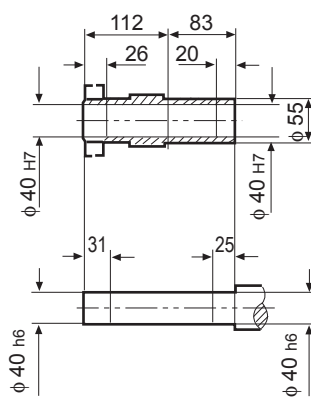
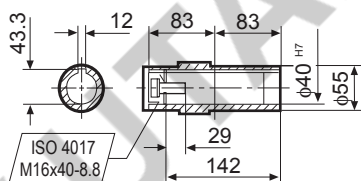
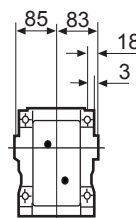
TKA 57B..



TKH 57B..

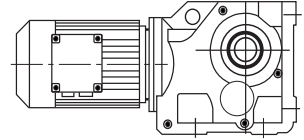


TKV 57B..

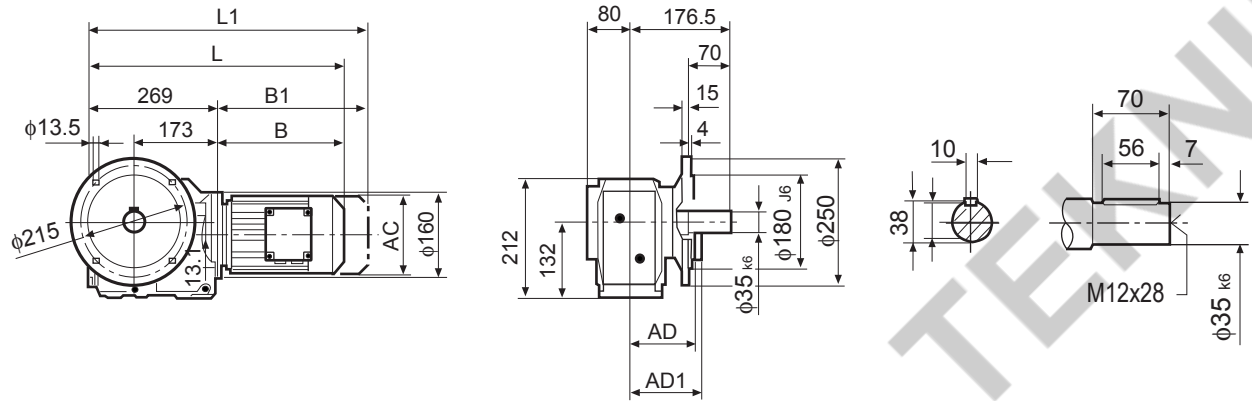


	Y63..□	Y71D□	Y80..□	Y90..□	Y100M□	Y100I□	Y112M□		
AC□	132□	145□	145□	197□	197□	197□	221□		
AD□	105□	122□	122□	154□	166□	166□	179□		
AD1□	105□	127□	127□	161□	166□	166□	182□		
B□	185□	199□	249□	269□	319□	349□	354□		
B1□	240□	263□	313□	354□	404□	434□	434□		
L□	438□	452□	502□	522□	572□	602□	607□		
L1□	493□	516□	566□	607□	657□	687□	687□		

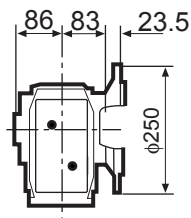
OUTLINE DIMENSION SHEET



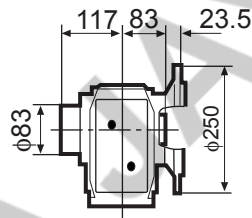
TKF57..



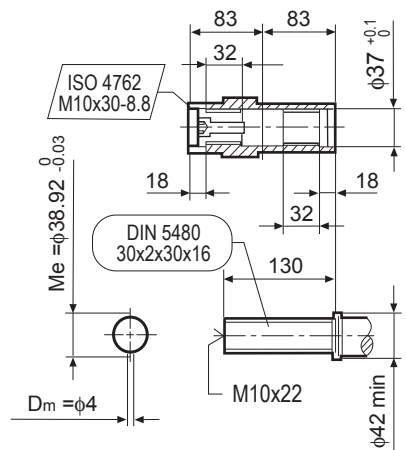
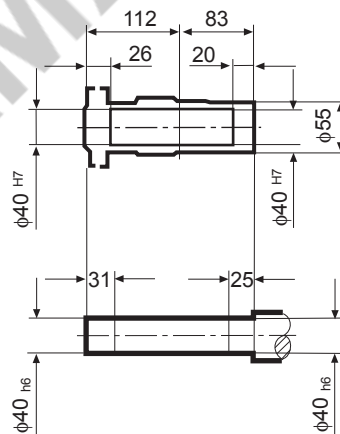
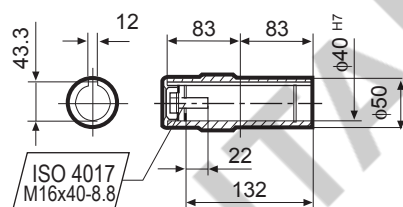
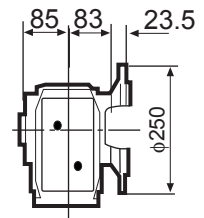
TKAF47..



TKHF47..

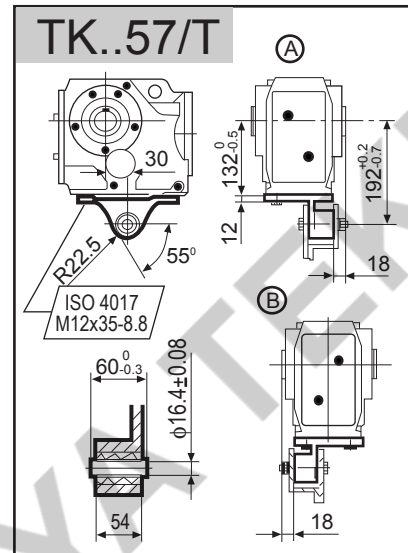
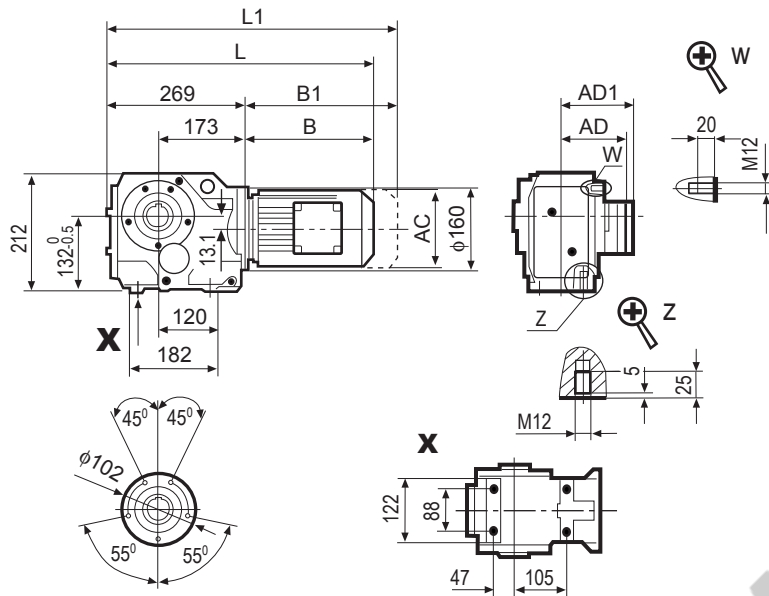


TKVF47..

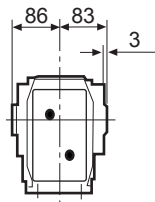


	Y63..□	Y71D□	Y80..□	Y90..□	Y100M□	Y100L□	Y112M		
AC□	132□	145□	145□	197□	197□	197□	221		
AD□	105□	122□	122□	154□	166□	166□	179		
AD1□	105□	127□	127□	161□	166□	166□	182		
B□	185□	199□	249□	269□	319□	349□	354		
B1□	240□	263□	313□	354□	404□	434□	434		
L□	454□	468□	518□	538□	588□	618□	623		
L1□	509□	532□	582□	623□	673□	703	703		

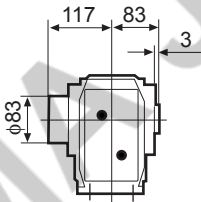
TKA 57..



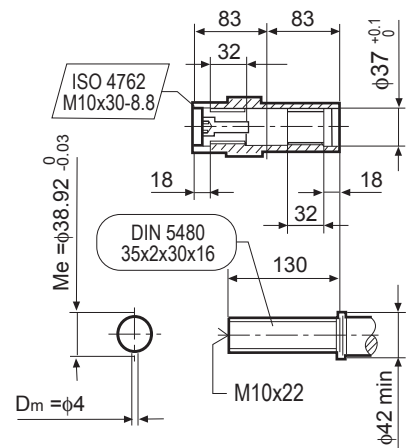
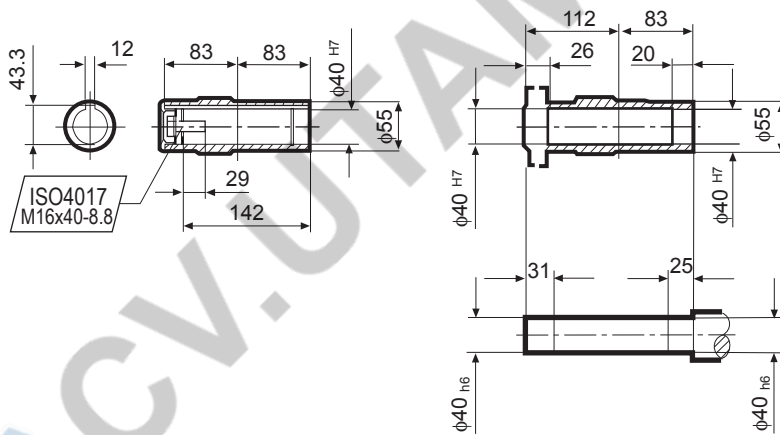
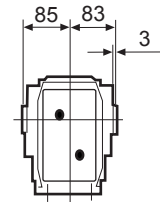
TKA57..



TKH57..

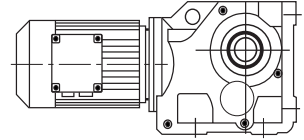


TKV57..

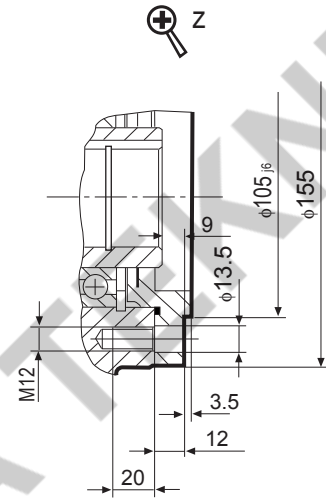
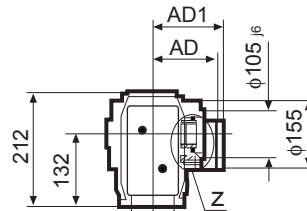
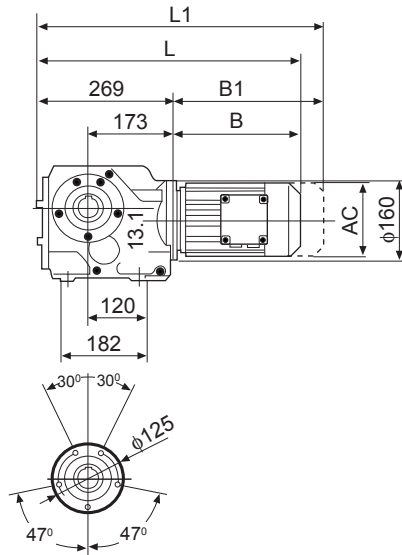


	Y63..□	Y71D□	Y80..□	Y90..□	Y100M□	Y100L□	Y112M		
AC□	132□	145□	145□	197□	197□	197□	221		
AD□	105□	122□	122□	154□	166□	166□	179		
AD1□	105□	127□	127□	161□	166□	166□	182		
B□	185□	199□	249□	269□	319□	349□	354		
B1□	240□	263□	313□	354□	404□	434□	434		
L□	454□	468□	518□	538□	588□	618□	623		
L1□	509□	532□	582□	623□	673□	703	703		

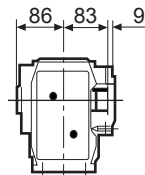
OUTLINE DIMENSION SHEET



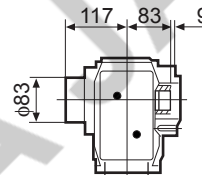
TKAZ 57..



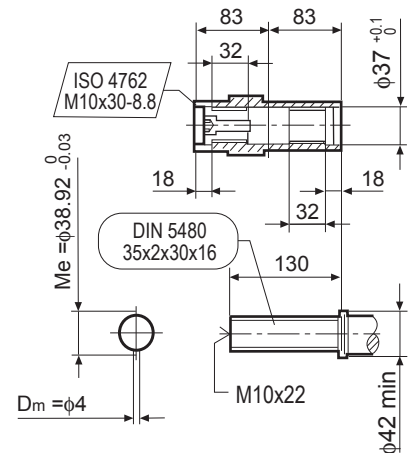
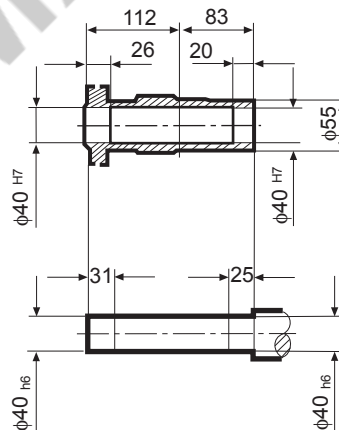
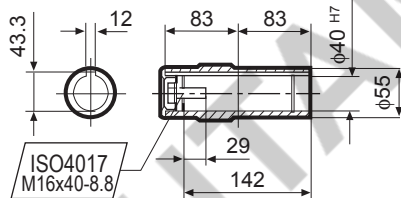
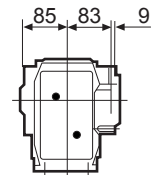
TKAZ 57..



TKHZ 57..

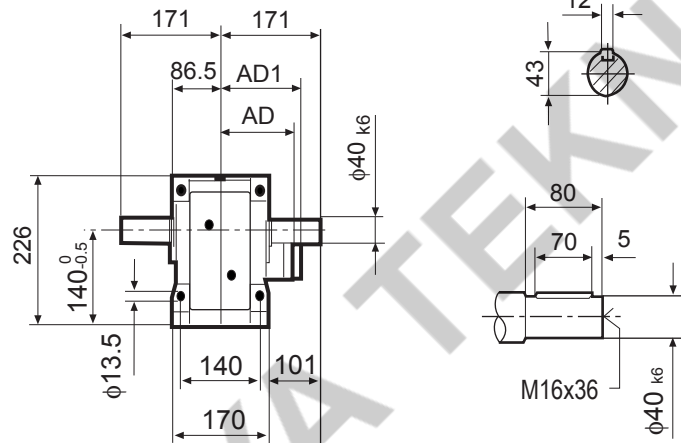


TKVZ 57..



	Y63..□	Y71D□	Y80..□	Y90..□	Y100M□	Y100L□	Y112M		
AC□	132□	145□	145□	197□	197□	197□	221		
AD□	105□	122□	122□	154□	166□	166□	179		
AD1□	105□	127□	127□	161□	166□	166□	182		
B□	185□	199□	249□	269□	319□	349□	354		
B1□	240□	263□	313□	354□	404□	434□	434		
L□	454□	468□	518□	538□	588□	618□	623		
L1□	509□	532□	582□	623□	673□	703	703		

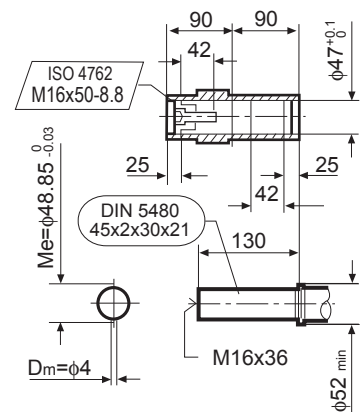
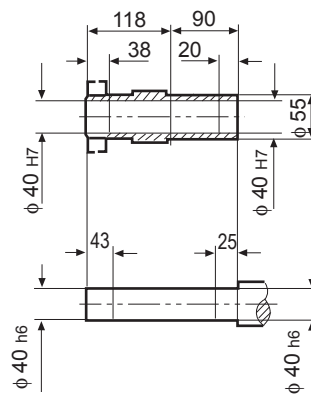
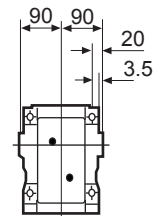
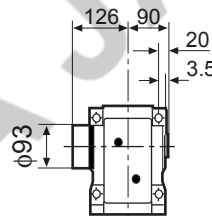
TK 67..



TKA 67B..

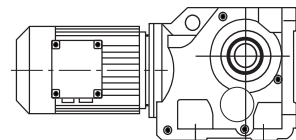
TKH 67B..

TKV 67B..

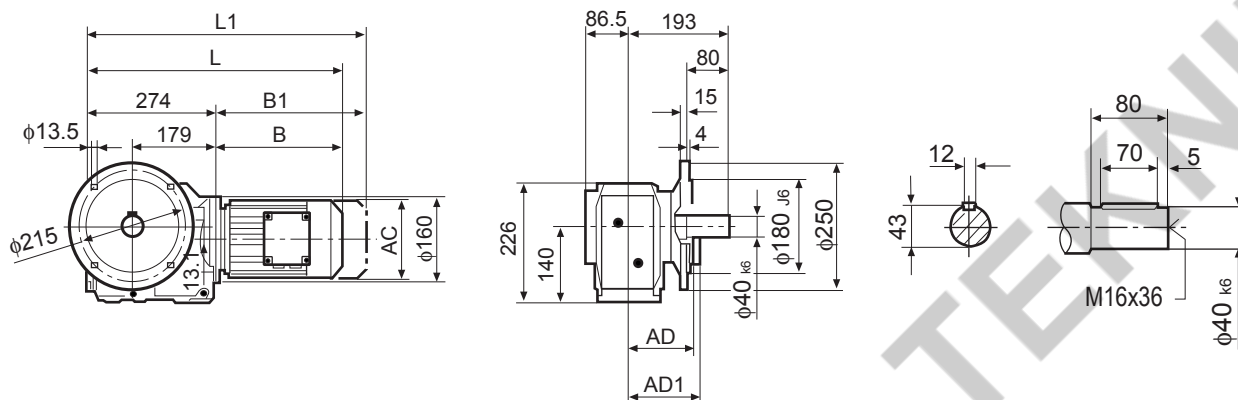


	Y63..□	Y71D□	Y80..□	Y90..□	Y100M□	Y100L□	Y112M□	Y132S	
AC□	132□	145□	145□	197□	197□	197□	221□	221	
AD□	105□	122□	122□	154□	166□	166□	179□	179	
AD1□	105□	127□	127□	161□	166□	166□	182□	182	
B□	185□	199□	249□	269□	319□	349□	354□	402	
B1□	240□	263□	313□	354□	404□	434□	434□	482	
L□	454□	468□	518□	538□	588□	618□	623□	671	
L1□	509□	532□	582□	623□	673□	703□	703	751	

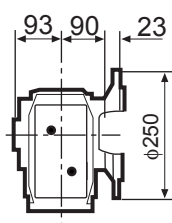
OUTLINE DIMENSION SHEET



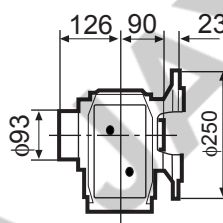
TKF67..



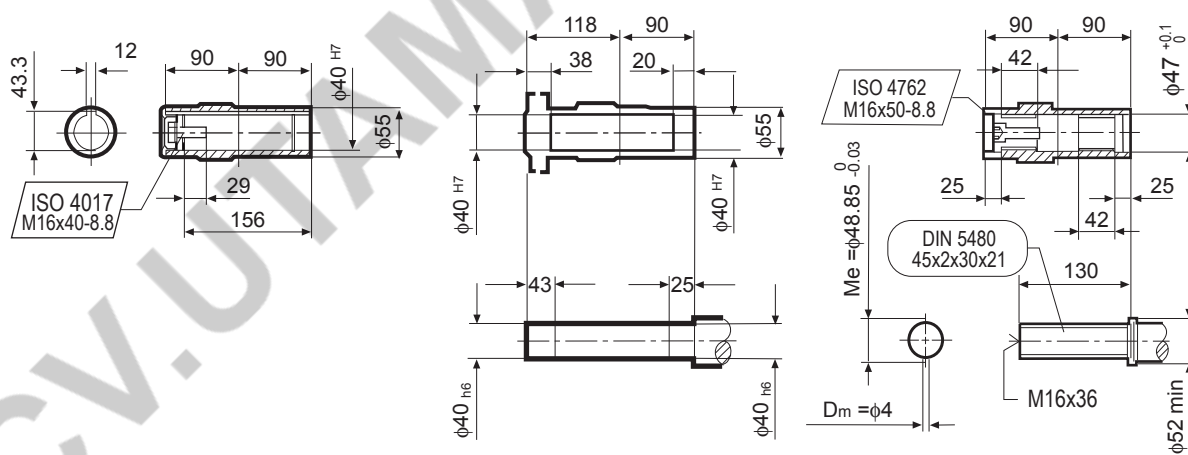
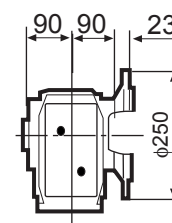
TKAF67..



TKHF67..

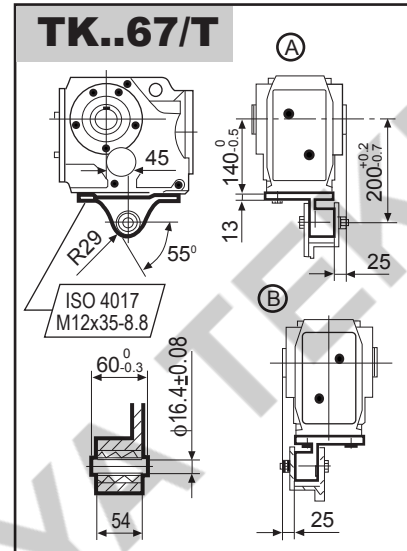
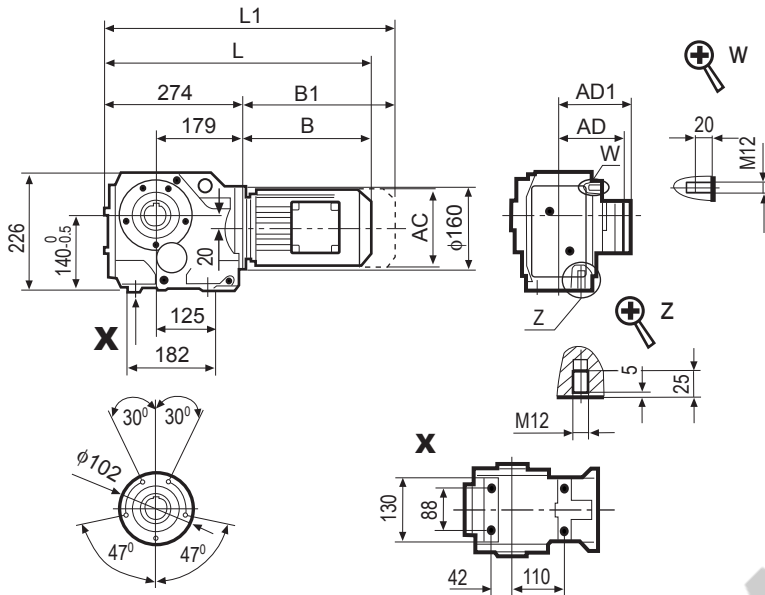


TKVF67..

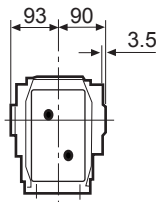


	Y63..□	Y71D□	Y80..□	Y90..□	Y100M□	Y100L□	Y112M□	Y132S	
AC□	132□	145□	145□	197□	197□	197□	221□	221	
AD□	105□	122□	122□	154□	166□	166□	179□	179	
AD1□	105□	127□	127□	161□	166□	166□	182□	182	
B□	185□	199□	249□	269□	319□	349□	354□	402	
B1□	240□	263□	313□	354□	404□	434□	434□	482	
L□	459□	473□	523□	543□	593□	623□	628□	676	
L1□	514□	537□	587□	628□	678□	708□	708	756	

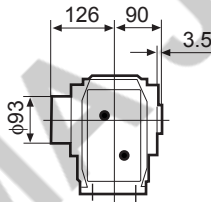
TKA 67..



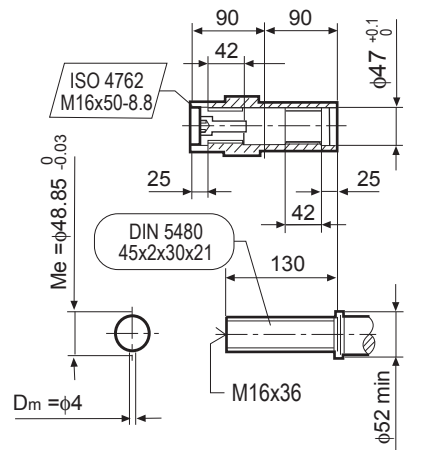
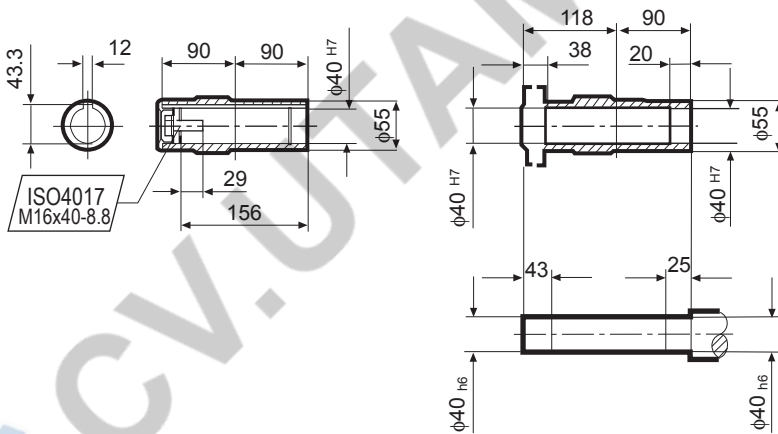
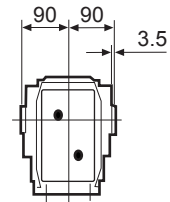
TKA67..



TKH67..

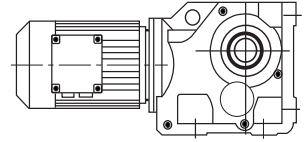


TKV67..

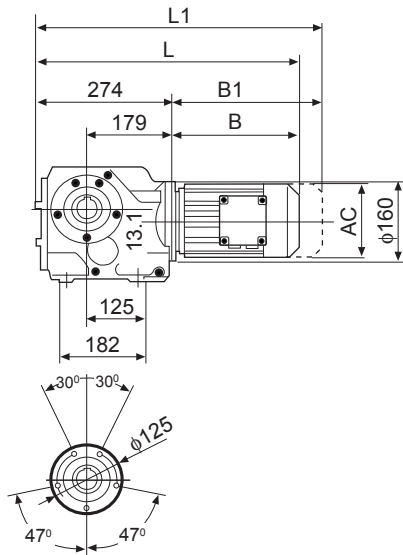


	Y63..	Y71D	Y80..	Y90..	Y100M	Y100L	Y112M	Y132S	
AC	132	145	145	197	197	197	221	221	
AD	105	122	122	154	166	166	179	179	
AD1	105	127	127	161	166	166	182	182	
B	185	199	249	269	319	349	354	402	
B1	240	263	313	354	404	434	434	482	
L	459	473	523	543	593	623	628	676	
L1	514	537	587	628	678	708	708	756	

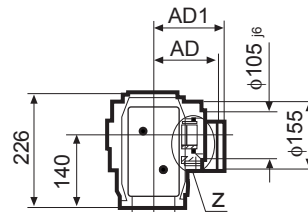
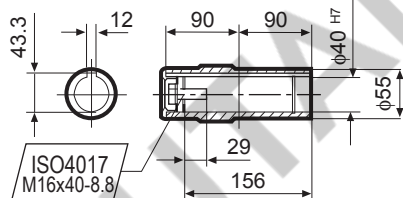
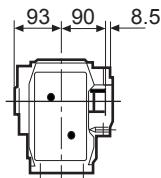
OUTLINE DIMENSION SHEET



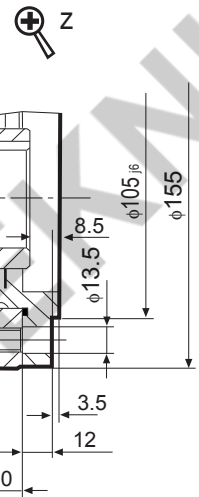
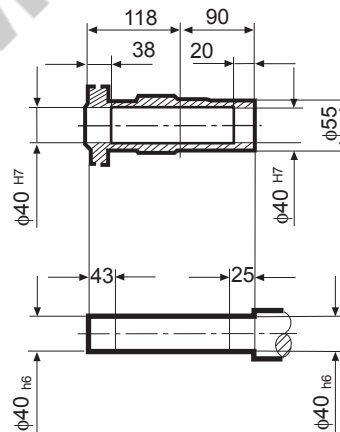
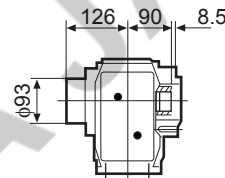
TKAZ 67..



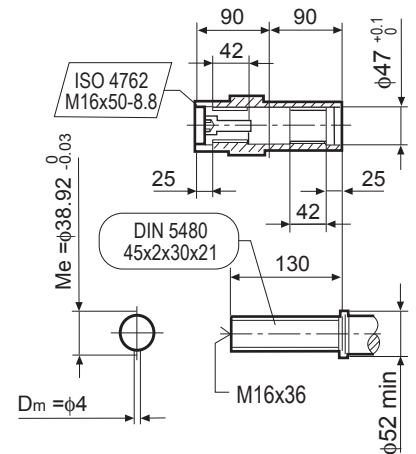
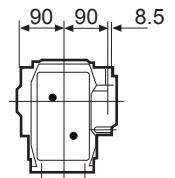
TKAZ 67..



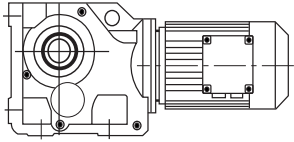
TKHZ 67..



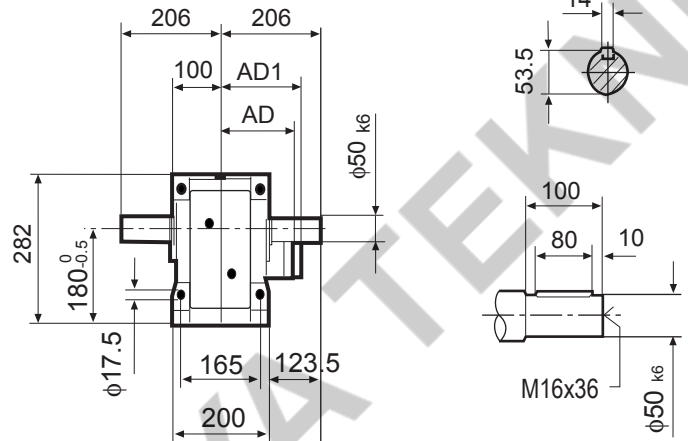
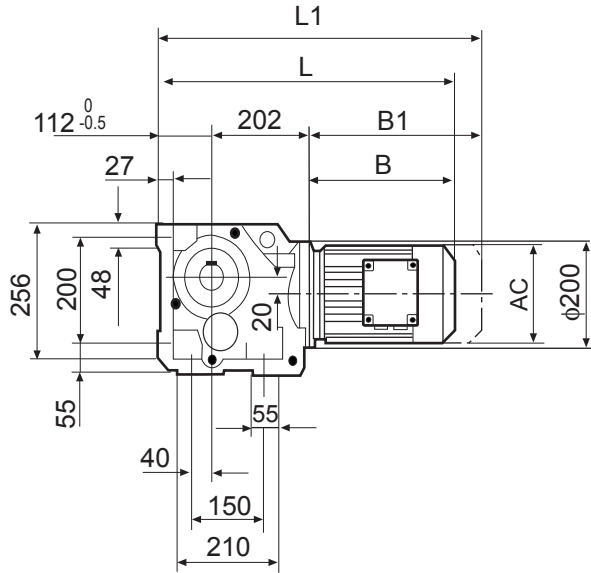
TKVZ 67..



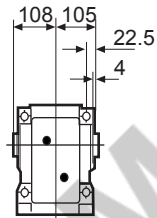
	Y63..□	Y71D□	Y80..□	Y90..□	Y100M□	Y100L□	Y112M□	Y132S	
AC□	132□	145□	145□	197□	197□	197□	221□	221	
AD□	105□	122□	122□	154□	166□	166□	179□	179	
AD1□	105□	127□	127□	161□	166□	166□	182□	182	
B□	185□	199□	249□	269□	319□	349□	354□	402	
B1□	240□	263□	313□	354□	404□	434□	434□	482	
L□	459□	473□	523□	543□	593□	623□	628□	676	
L1□	514□	537□	587□	628□	678□	706□	708	756	



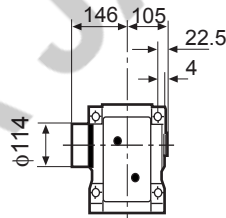
TK 77..



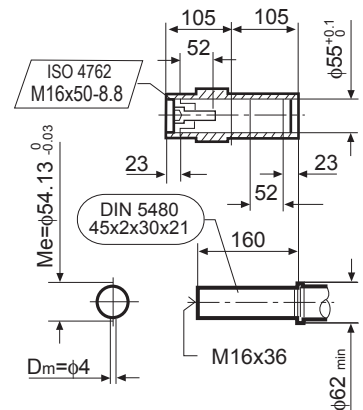
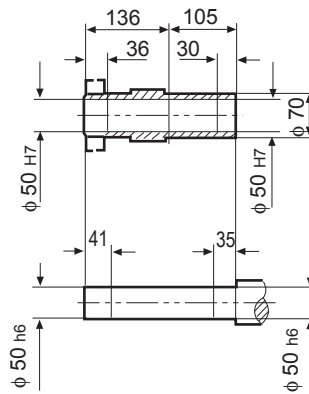
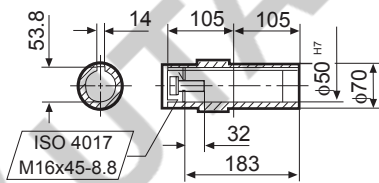
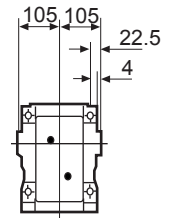
TKA 77B..



TKH 77B..

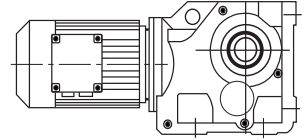


TKV 77B..

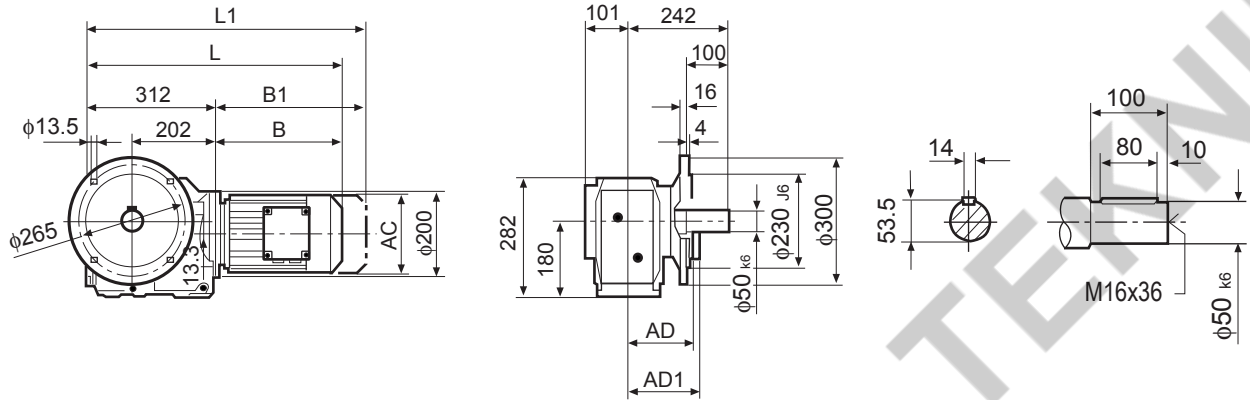


	Y71D□	Y80..□	Y90..□	Y100M□	Y100L□	Y112M□	Y132S□	Y132M□	Y132ML□	Y160M□
AC□	145□	145□	197□	197□	197□	221□	221□	275□	275□	275
AD□	122□	122□	154□	166□	166□	179□	179□	230□	230□	230
AD1□	127□	127□	161□	166□	166□	182□	182□	230□	230□	230
B□	193□	243□	261□	311□	341□	345□	390□	412□	472□	472
B1□	257□	307□	346□	396□	426□	425□	470□	524□	584□	584
L□	507□	557□	575□	625□	655□	659□	704□	726□	786□	786
L1□	571□	621□	660□	710□	740□	739□	784□	838□	898□	898

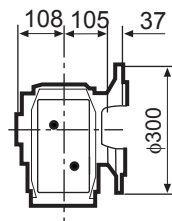
OUTLINE DIMENSION SHEET



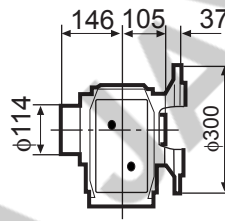
TKF77..



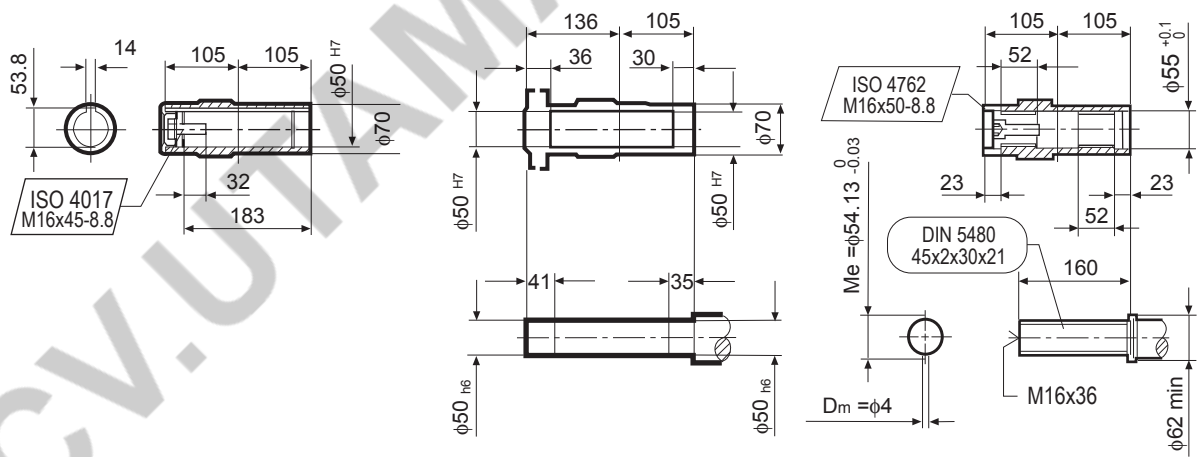
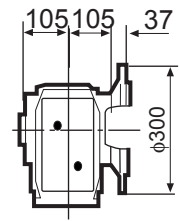
TKAF67..



TKHF67..

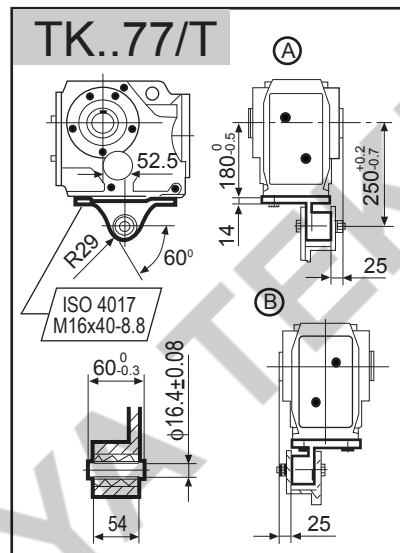
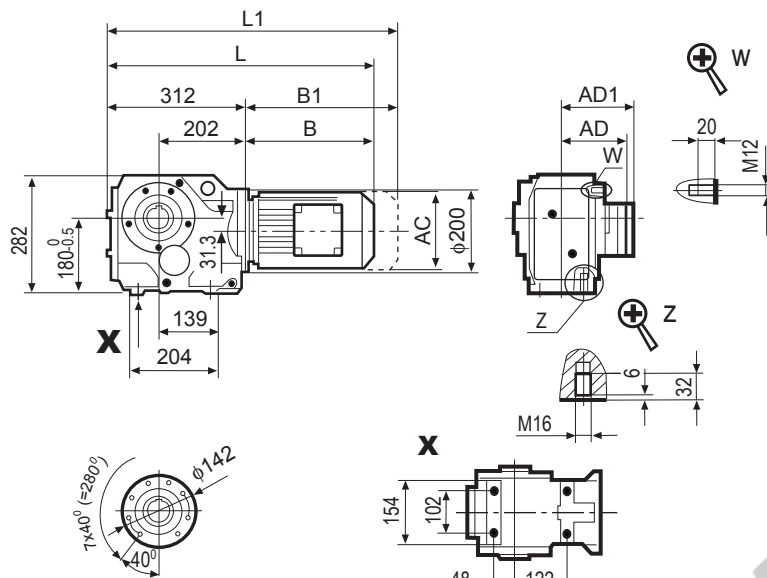


TKVF67..

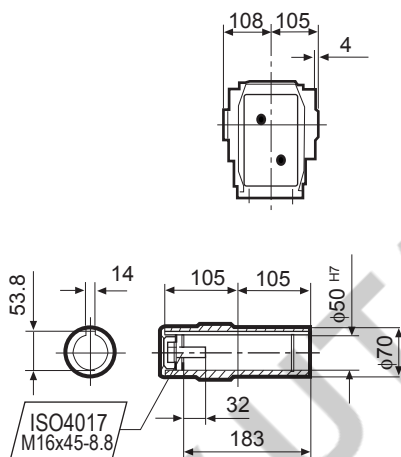


	Y71D□	Y80..□	Y90..□	Y100M□	Y100L□	Y112M□	Y132S□	Y132M□	Y132ML□	Y160M
AC□	145□	145□	197□	197□	197□	221□	221□	275□	275□	275
AD□	122□	122□	154□	166□	166□	179□	179□	230□	230□	230
AD1□	127□	127□	161□	166□	166□	182□	182□	230□	230□	230
B□	193□	243□	261□	311□	341□	345□	390□	412□	472□	472
B1□	257□	307□	346□	396□	426□	425□	470□	524□	584□	584
L□	505□	555□	573□	623□	653□	657□	702□	724□	784□	784
L1□	569□	619□	658□	708□	738□	737□	782□	836□	896	896

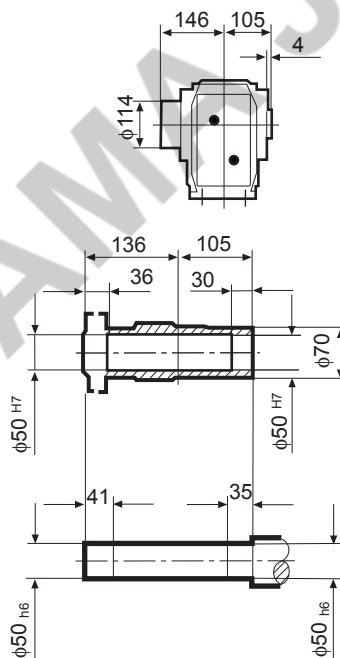
TKA 77..



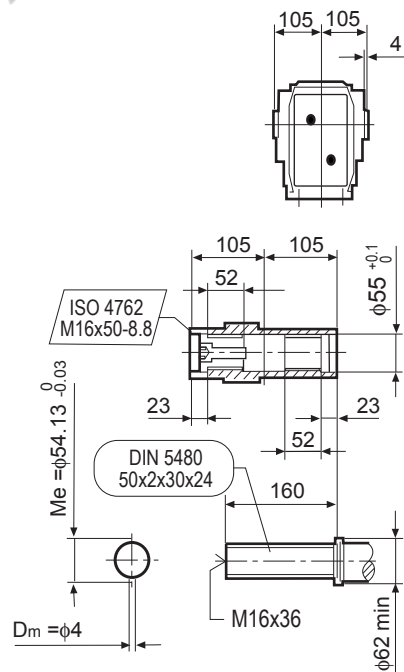
TKA77..



TKH77..

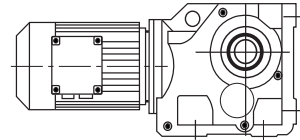


TKV77..

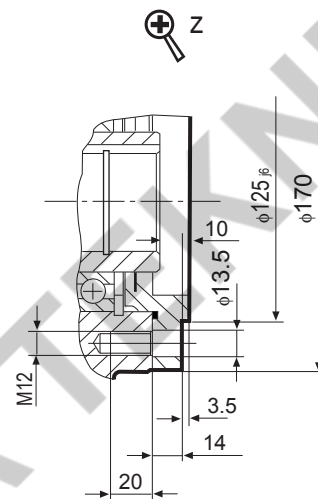
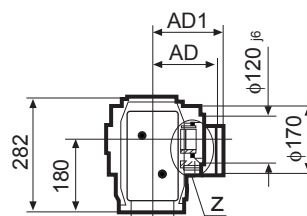
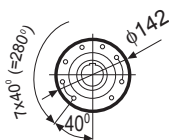
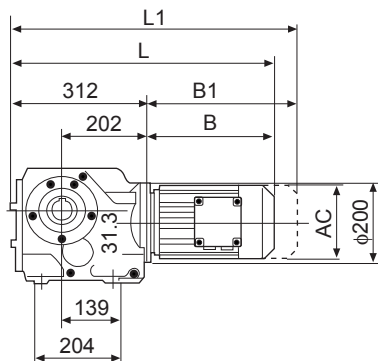


	Y71D□	Y80..□	Y90..□	Y100M□	Y100L□	Y112M□	Y132S□	Y132M□	Y132ML□	Y160M
AC□	145□	145□	197□	197□	197□	221□	221□	275□	275□	275
AD□	122□	122□	154□	166□	166□	179□	179□	230□	230□	230
AD1□	127□	127□	161□	166□	166□	182□	182□	230□	230□	230
B□	193□	243□	261□	311□	341□	345□	390□	412□	472□	472
B1□	257□	307□	346□	396□	426□	425□	470□	524□	584□	584
L□	505□	555□	573□	623□	653□	657□	702□	724□	784□	784
L1□	569□	619□	658□	708□	738□	737□	782□	836□	896□	896

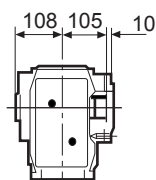
OUTLINE DIMENSION SHEET



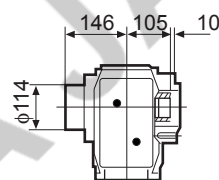
TKAZ 77..



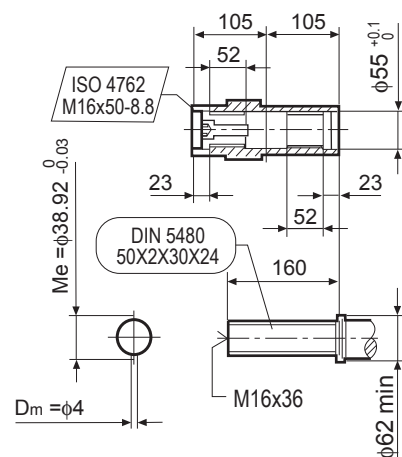
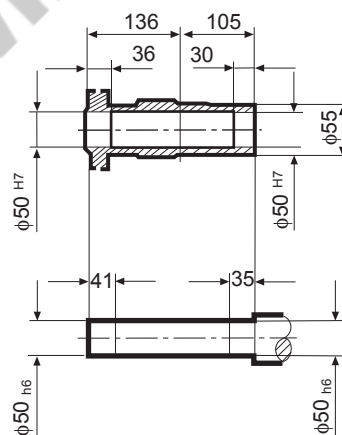
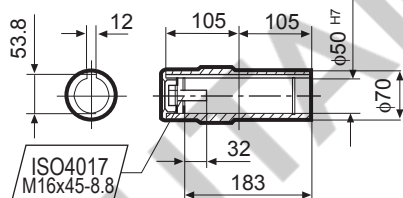
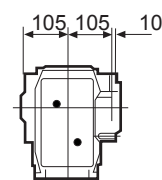
TKAZ 77..



TKHZ 77..

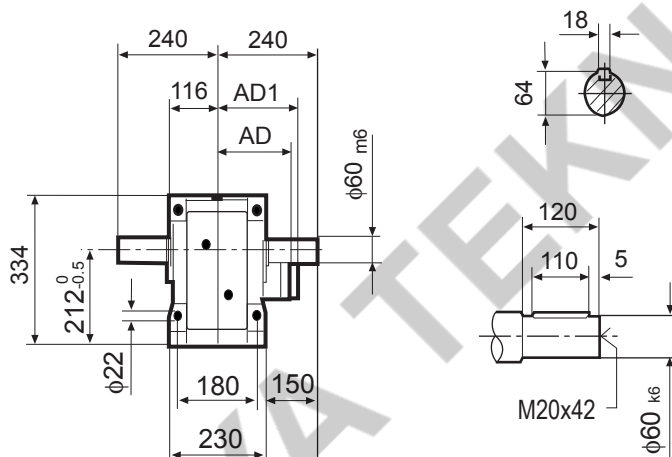
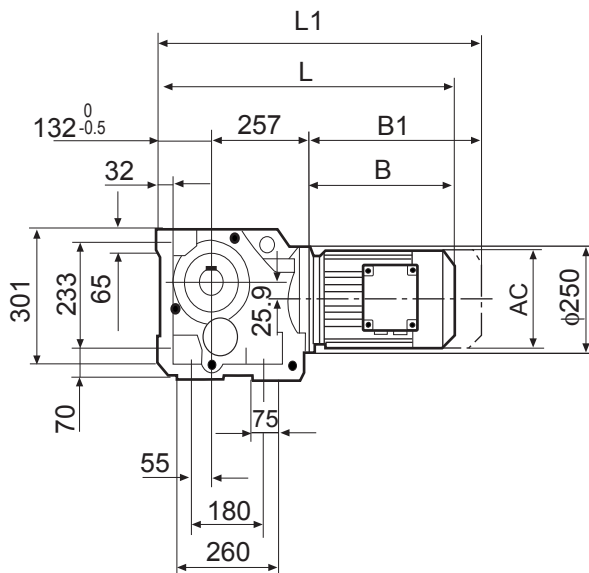


TKVZ 77..

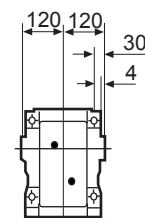


	Y71D□	Y80..□	Y90..□	Y100M□	Y100L□	Y112M□	Y132S□	Y132M□	Y132ML□	Y160M
AC□	145□	145□	197□	197□	197□	221□	221□	275□	275□	275
AD□	122□	122□	154□	166□	166□	179□	179□	230□	230□	230
AD1□	127□	127□	161□	166□	166□	182□	182□	230□	230□	230
B□	193□	243□	261□	311□	341□	345□	390□	412□	472□	472
B1□	257□	307□	346□	396□	426□	425□	470□	524□	584□	584
L□	505□	555□	573□	623□	653□	657□	702□	724□	784□	784
L1□	569□	619□	658□	708□	738□	737□	782□	836□	896	896

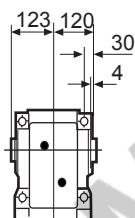
TK 87..



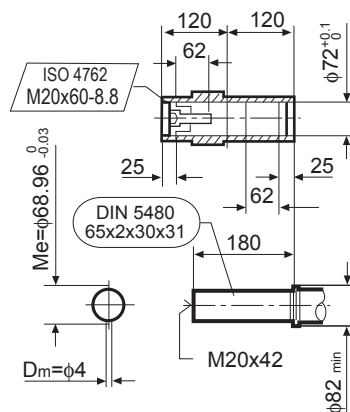
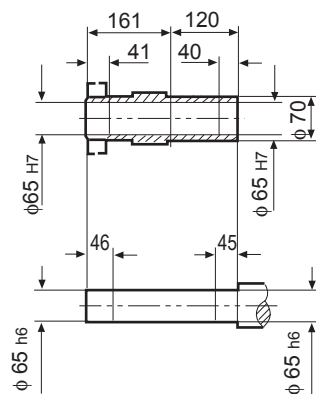
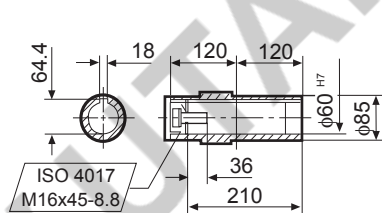
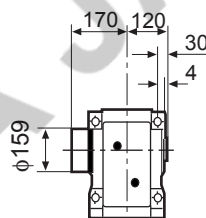
TKV 87B..



TKA 87B..

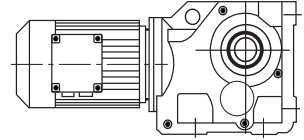


TKH 87B..

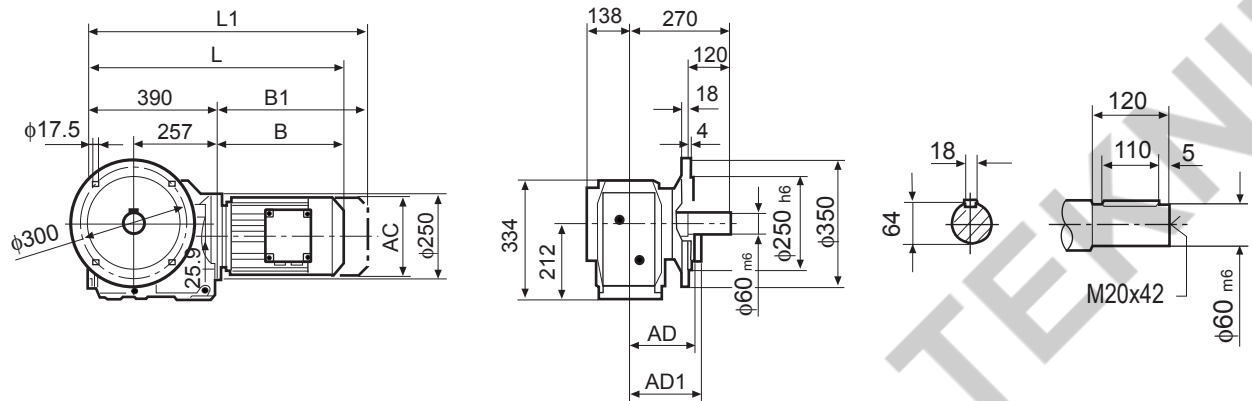


	Y80..□	Y90..□	Y100M□	Y100L□	Y112M□	Y132S□	Y132M□	Y132ML□	Y160M□	Y160L□	Y180..
AC□	145□	197□	197□	197□	221□	221□	275□	275□	275□	331□	331
AD□	122□	154□	166□	166□	179□	179□	230□	230□	230□	258□	258
AD1□	127□	161□	166□	166□	182□	182□	230□	230□	230□	258□	258
B□	238□	257□	307□	337□	340□	385□	407□	467□	467□	514□	586
B1□	302□	342□	392□	422□	440□	465□	519□	579□	579□	670□	742
L□	627□	646□	696□	726□	729□	774□	796□	856□	856□	903□	975
L1□	691□	731□	781□	811□	809□	854□	908□	968□	968□	1059	1131

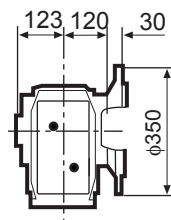
OUTLINE DIMENSION SHEET



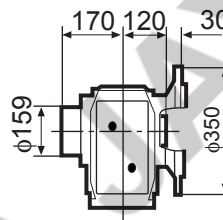
TKF87..



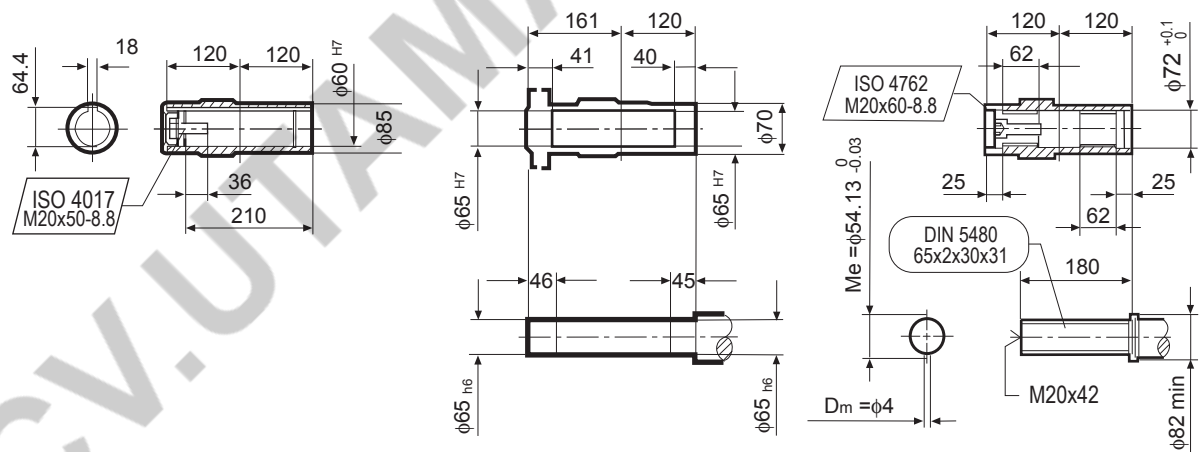
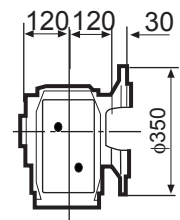
TKAF87..



TKHF87..

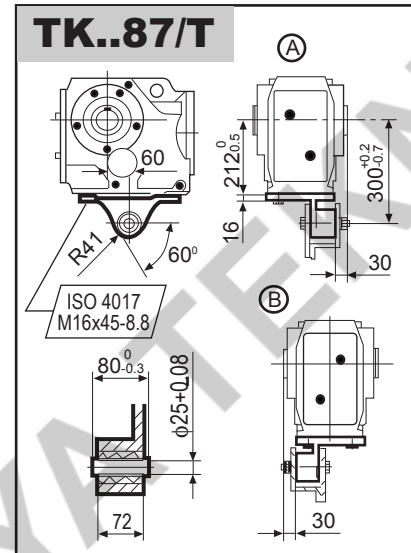
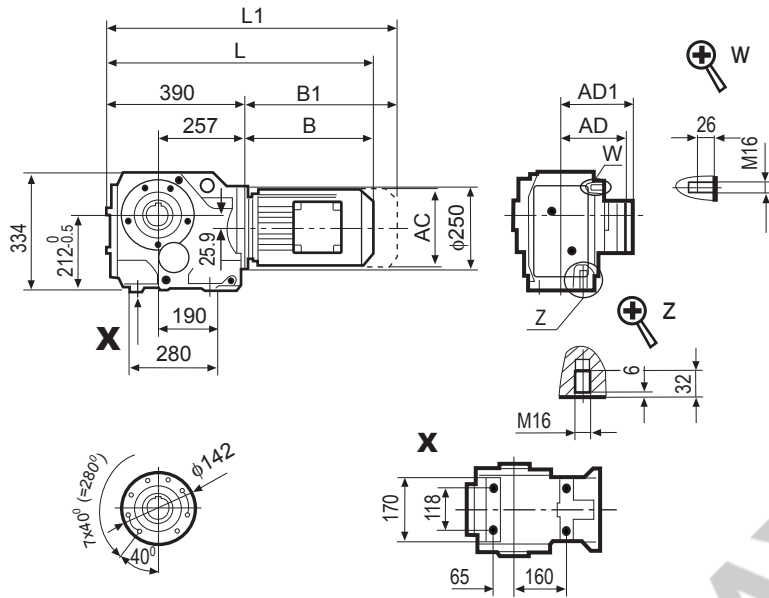


TKVF87..

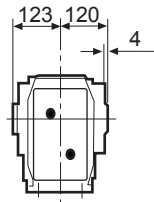


	Y80..	Y90..	Y100M	Y100L	Y112M	Y132S	Y132M	Y132ML	Y160M	Y160L	Y180..
AC	145	197	197	197	221	221	275	275	275	331	331
AD	122	154	166	166	179	179	230	230	230	258	258
AD1	127	161	166	166	182	182	230	230	230	258	258
B	238	257	307	337	340	385	407	467	467	514	586
B1	302	342	392	422	420	465	519	579	579	670	742
L	628	647	697	727	730	775	797	857	857	904	976
L1	692	732	782	812	810	855	909	969	969	1060	1132

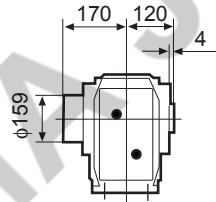
TKA 87..



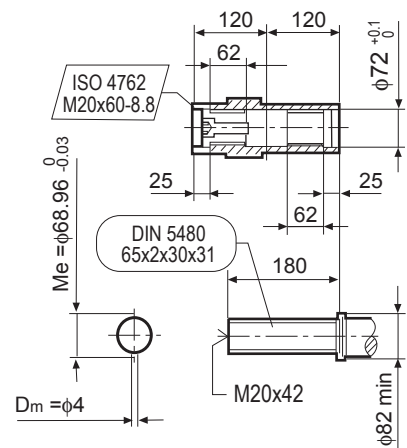
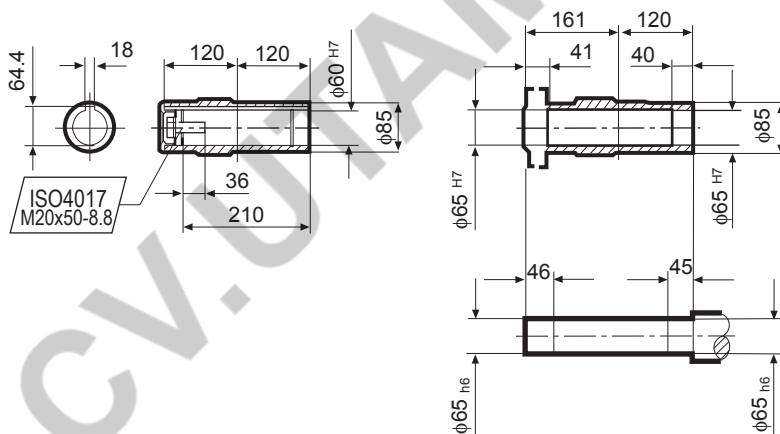
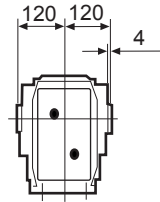
TKA 87..



TKH 87..

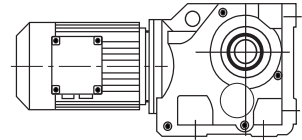


TKV 87..

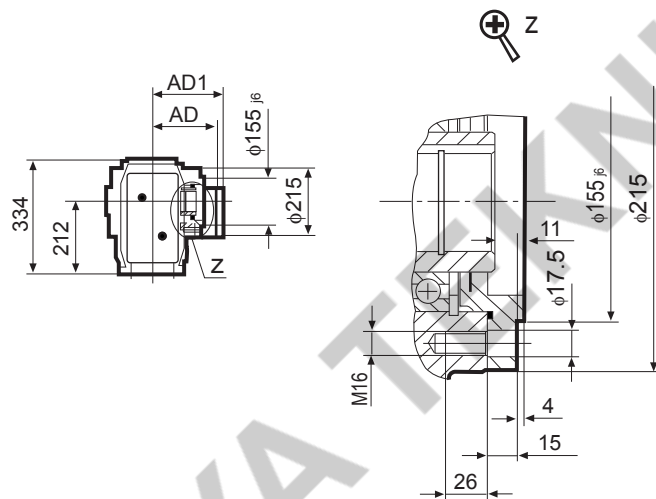
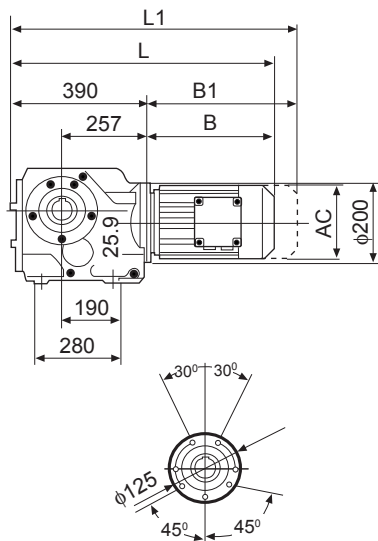


	Y80..□	Y90..□	Y100M□	Y100L□	Y112M□	Y132S□	Y132M□	Y132ML□	Y160M□	Y160L□	Y180..
AC□	145□	197□	197□	197□	221□	221□	275□	275□	275□	331□	331
AD□	122□	154□	166□	166□	179□	179□	230□	230□	230□	258□	258
AD1□	127□	161□	166□	166□	182□	182□	230□	230□	230□	258□	258
B□	238□	257□	307□	337□	340□	385□	407□	467□	467□	514□	586
B1□	302□	342□	392□	422□	420□	465□	519□	579□	579□	670□	742
L□	628□	647□	697□	727□	730□	775□	797□	857□	857□	904□	976
L1□	692□	732□	782□	812□	810□	855□	909□	969□	969□	1060	1132

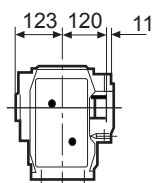
OUTLINE DIMENSION SHEET



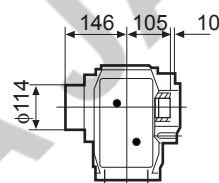
TKAZ 87..



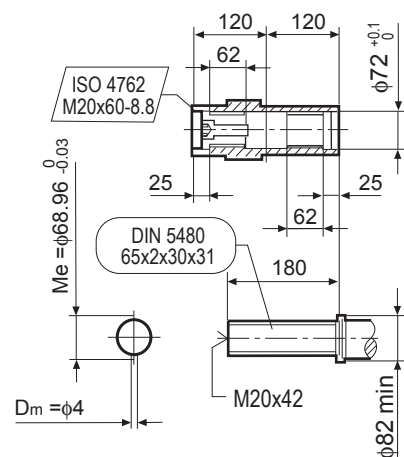
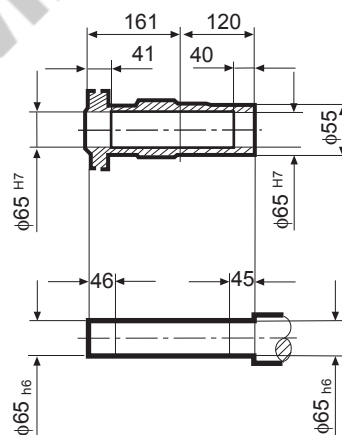
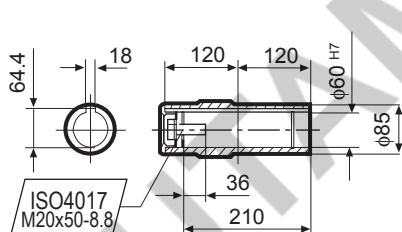
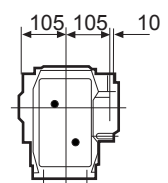
TKAZ 87..



TKHZ 87..

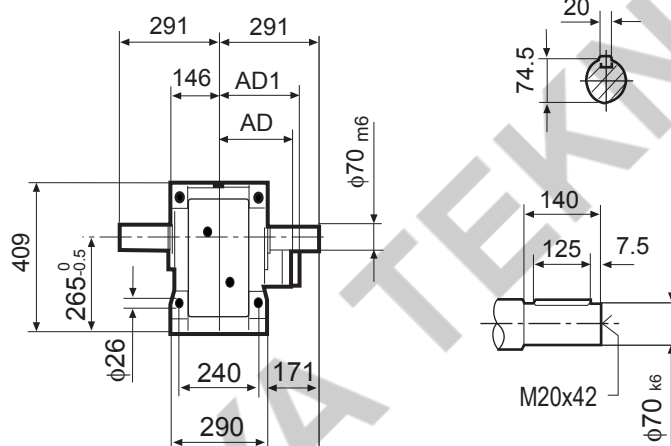
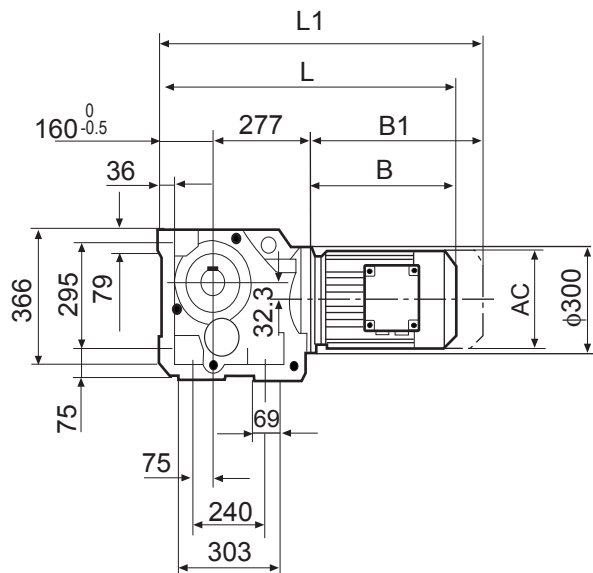


TKVZ 87..

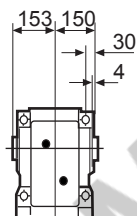


	Y80..□	Y90..□	Y100M□	Y100L□	MY112M□	Y132S□	Y132M□	Y132ML□	Y160M□	Y160L□	Y180..
AC□	145□	197□	197□	197□	221□	221□	275□	275□	275□	331□	331
AD□	122□	154□	166□	166□	179□	179□	230□	230□	230□	258□	258
AD1□	127□	161□	166□	166□	182□	182□	230□	230□	230□	258□	258
B□	238□	257□	307□	337□	340□	385□	407□	467□	467□	514□	586
B1□	302□	342□	392□	422□	420□	465□	519□	579□	579□	670□	742
L□	628□	647□	697□	727□	730□	775□	797□	857□	857□	904□	976
L1□	692□	732□	782□	812□	810□	855□	909□	969□	969□	1060	1132

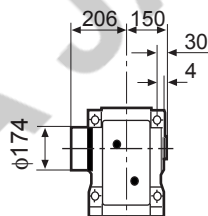
TK 97..



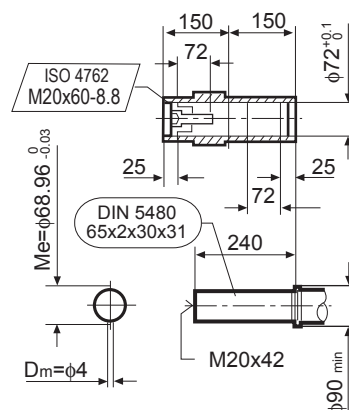
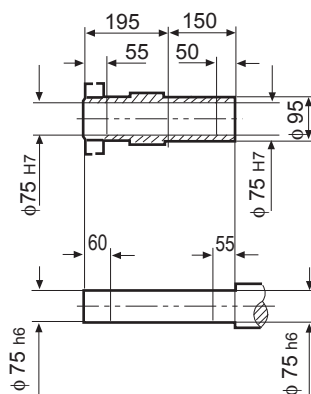
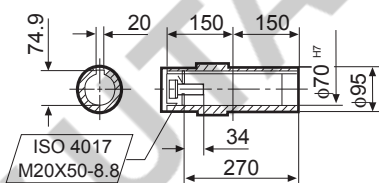
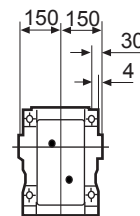
TKA 97B..



TKH 97B..

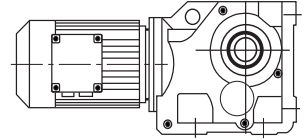


TKV 97B..

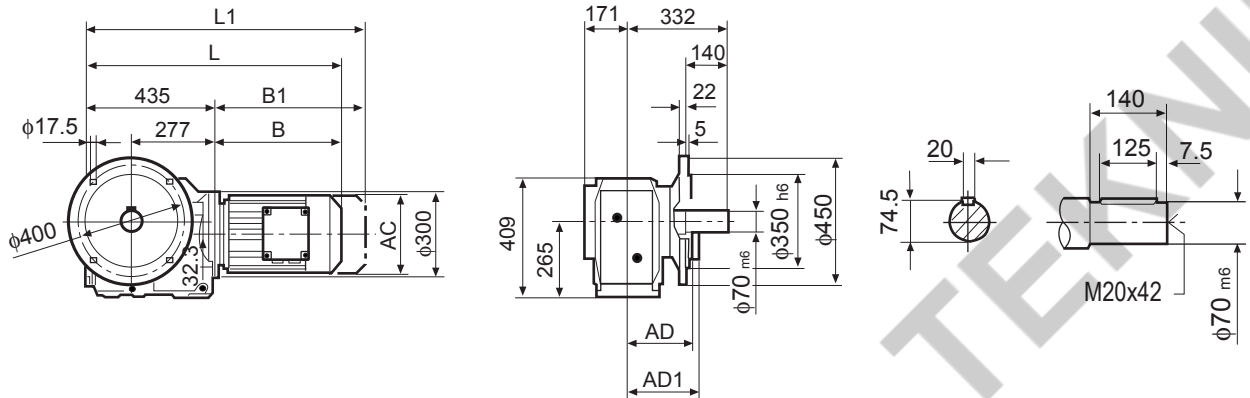


	Y90..	Y100M	Y100L	Y112M	Y132S	Y132M	Y132ML	Y160M	Y160L	Y180..	Y200..
AC	197	197	197	221	221	275	275	275	331	331	394
AD	154	166	166	179	179	230	230	230	258	258	285
AD1	161	166	166	182	182	230	230	230	258	258	285
B	251	301	331	335	380	402	462	462	509	581	629
B1	336	386	416	415	460	514	574	574	665	737	785
L	688	738	768	772	817	839	899	899	946	1018	1066
L1	773	823	853	852	897	951	1011	1011	1102	1174	1222

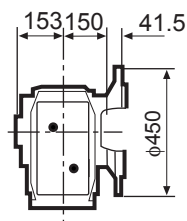
OUTLINE DIMENSION SHEET



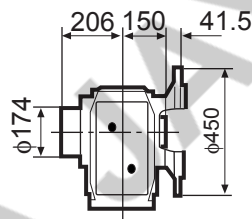
TKF97..



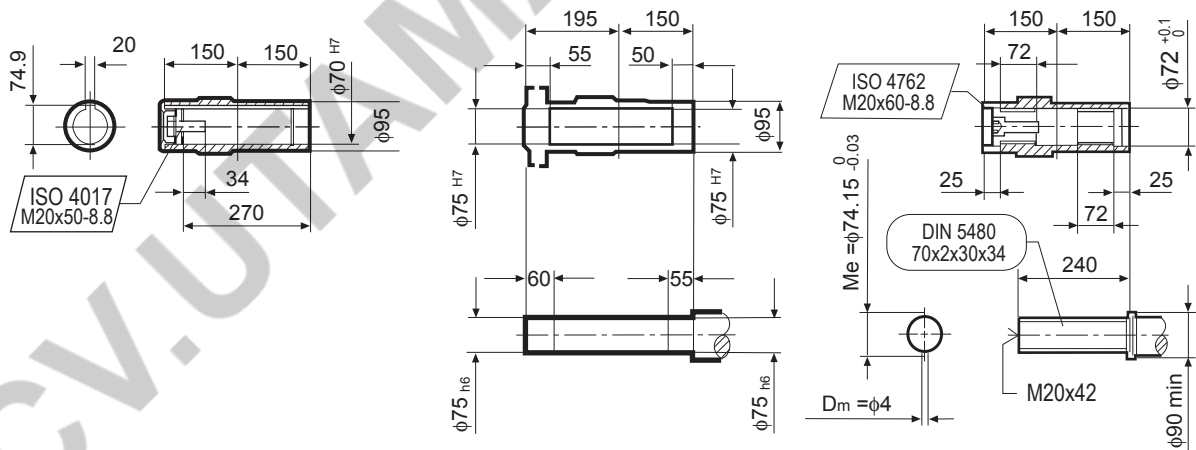
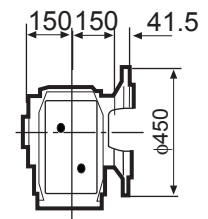
TKAF97..



TKHF 97..

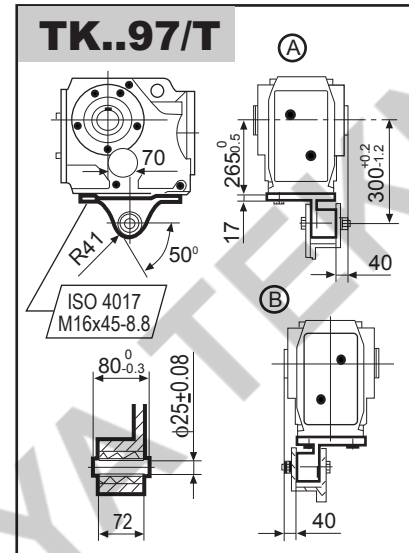
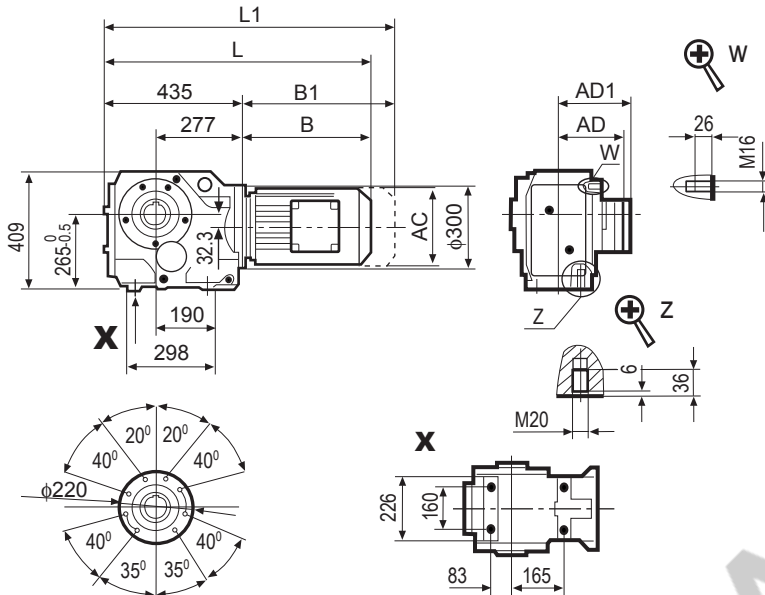


TKVF 97..

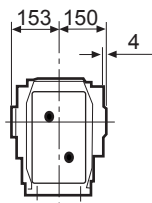


	Y90..	Y100M	Y100L	Y112M	Y132S	Y132M	Y132ML	Y160M	Y160L	Y180..	Y200..
AC	197	197	197	221	221	275	275	275	331	331	394
AD	154	166	166	179	179	230	230	230	258	258	285
AD1	161	166	166	182	182	230	230	230	258	258	285
B	251	301	331	335	380	402	462	462	509	581	629
B1	336	386	416	415	460	514	574	574	665	737	785
L	686	736	766	770	815	837	897	897	944	1016	1064
L1	771	821	851	850	895	949	1009	1009	1100	1172	1220

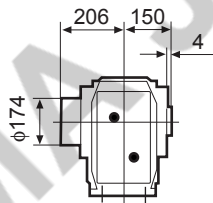
TKA 97..



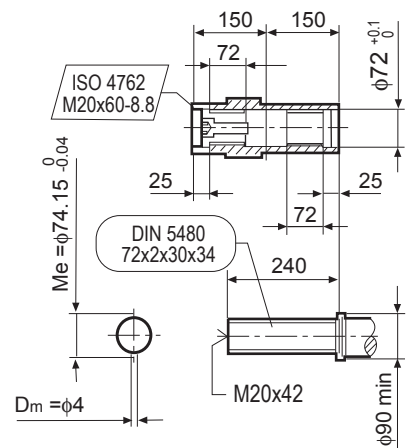
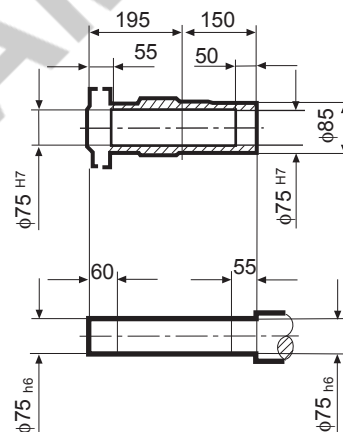
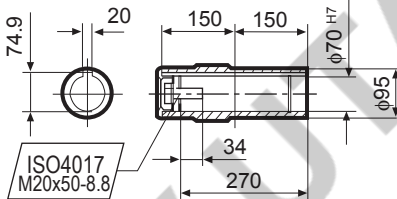
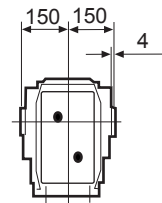
TKA 97..



TKH 97..

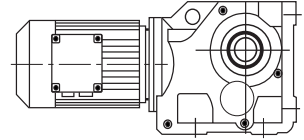


TKV 97..

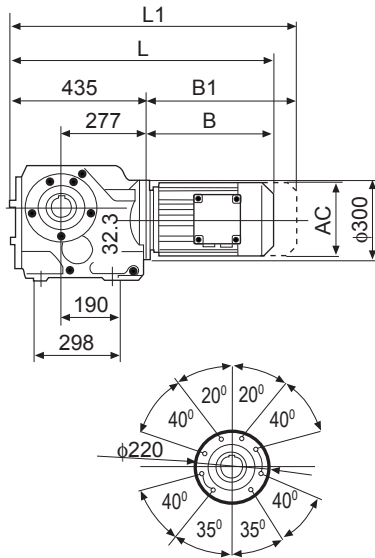


	Y90..□	Y100M□	Y100L□	Y112M□	Y132S□	Y132M□	Y132ML□	Y160M□	Y160L□	Y180..□	Y200..□
AC□	197□	197□	197□	221□	221□	275□	275□	275□	331□	331□	394
AD□	154□	166□	166□	179□	179□	230□	230□	230□	258□	258□	285
ADI□	161□	166□	166□	182□	182□	230□	230□	230□	258□	258□	285
B□	251□	301□	331□	335□	380□	402□	462□	462□	509□	581□	629
B1□	336□	386□	416□	415□	460□	514□	574□	574□	665□	737□	785
L□	686□	736□	766□	770□	815□	837□	897□	897□	944□	1016□	1064
LI□	771□	821□	851□	850□	895□	949□	1009□	1009□	1100□	1172	1220

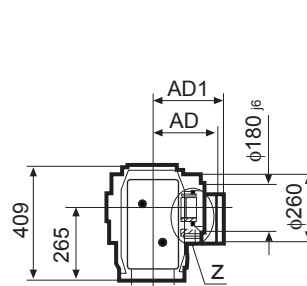
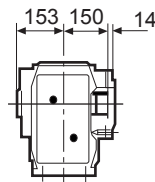
OUTLINE DIMENSION SHEET



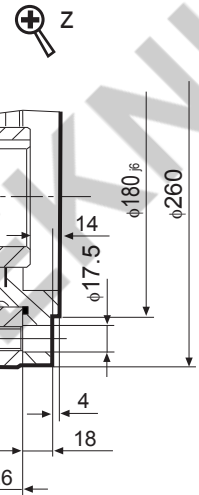
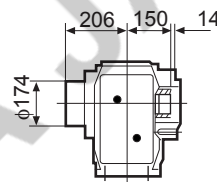
TKAZ 97..



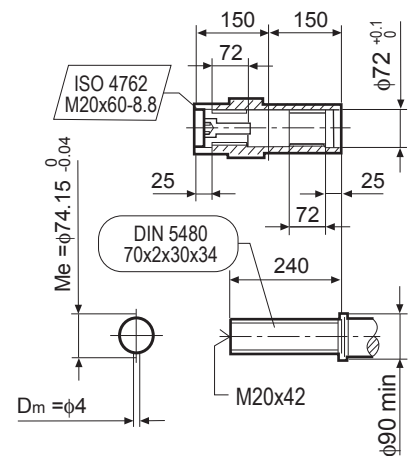
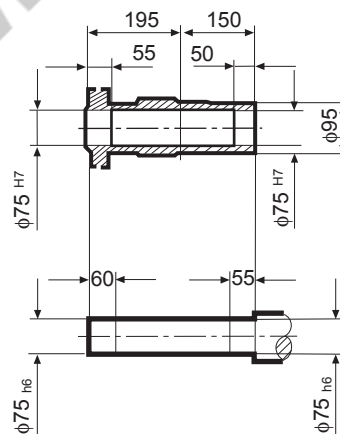
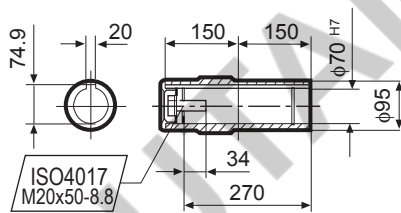
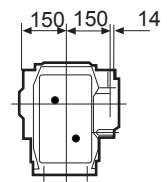
TKAZ 97..



TKHZ 97..

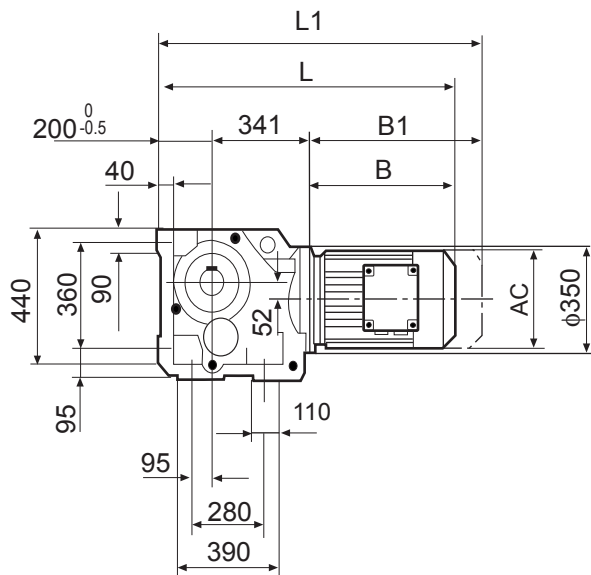


TKVZ 97..

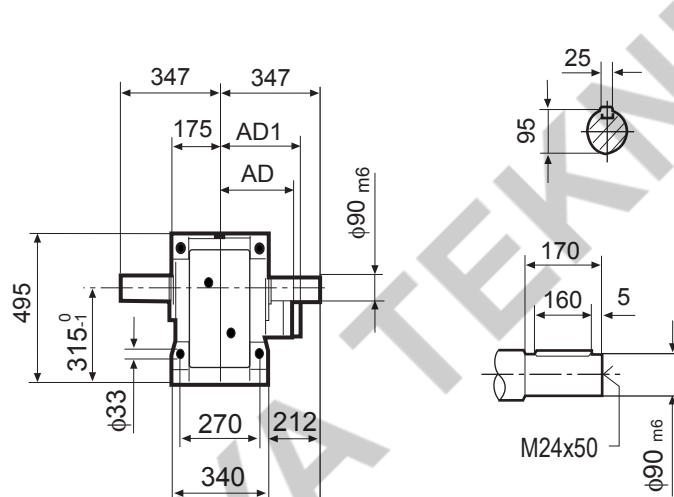


	Y90..	Y100M	Y100L	Y112M	Y132S	Y132M	Y132ML	Y160M	Y160L	Y180..	Y200..
AC	197	197	197	221	221	275	275	275	331	331	394
AD	154	166	166	179	179	230	230	230	258	258	285
AD1	161	166	166	182	182	230	230	230	258	258	285
B	251	301	331	335	380	402	462	462	509	581	629
B1	336	386	416	415	460	514	574	574	665	737	785
L	686	736	766	770	815	837	897	897	944	1016	1064
L1	771	821	851	850	895	949	1009	1009	1100	1172	1220

TK 107..

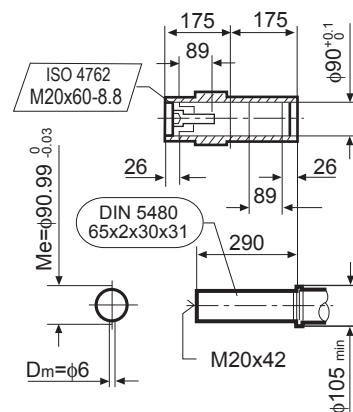
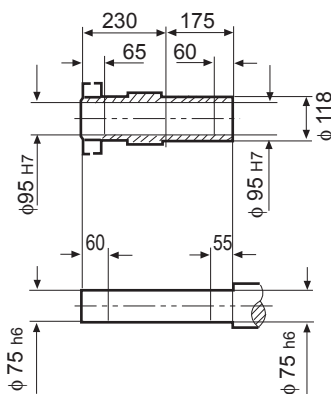
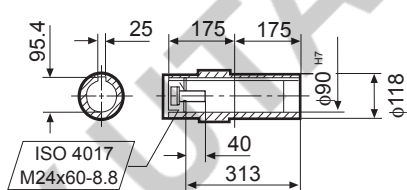
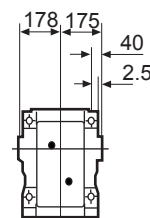
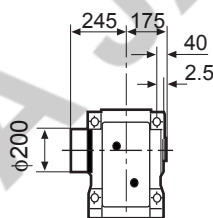
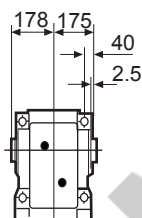


TKA 107B..



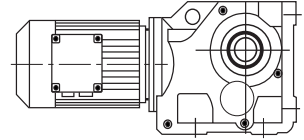
TKH 107B..

TKV 107B..

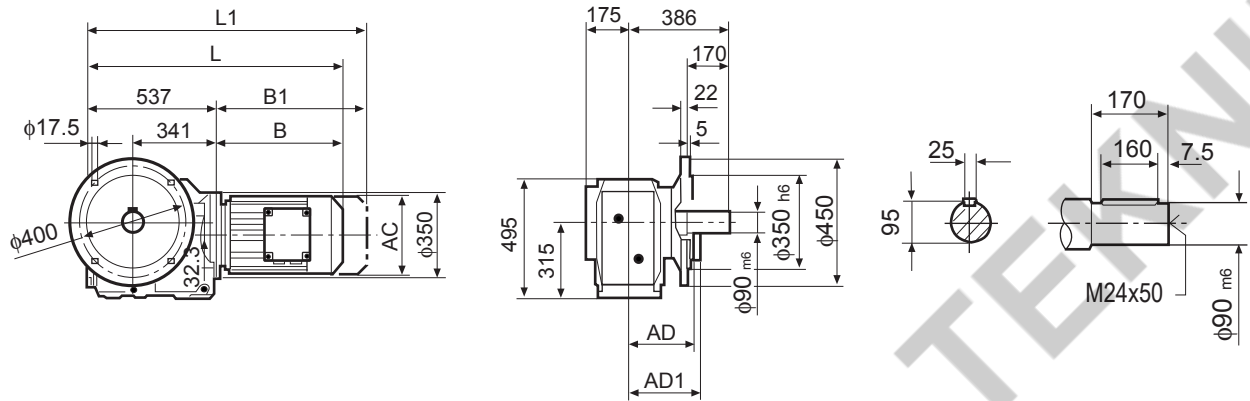


	Y100L□	Y112M□	Y132S□	Y132M□	Y132ML□	Y160M□	Y160L□	Y180..□	Y200..□	Y225..	
AC□	197□	221□	221□	275□	275□	275□	331□	331□	394□	394	
AD□	166□	179□	179□	230□	230□	230□	258□	258□	285□	289	
AD1□	166□	182□	182□	230□	230□	230□	258□	258□	285□	289	
B□	325□	329□	374□	396□	456□	456□	503□	575□	623□	705	
B1□	410□	409□	454□	508□	568□	568□	659□	731□	779□	861	
L□	866□	870□	915□	937□	997□	997□	1044□	1116□	1164□	1246	
LI□	951□	950□	995□	1049□	1109□	1109□	1200□	1272□	1320	1402	

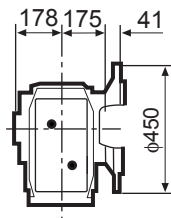
OUTLINE DIMENSION SHEET



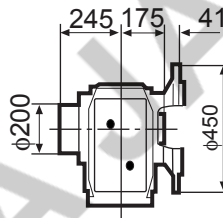
TKF 107..



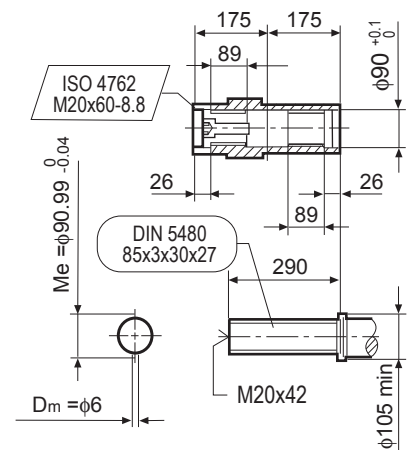
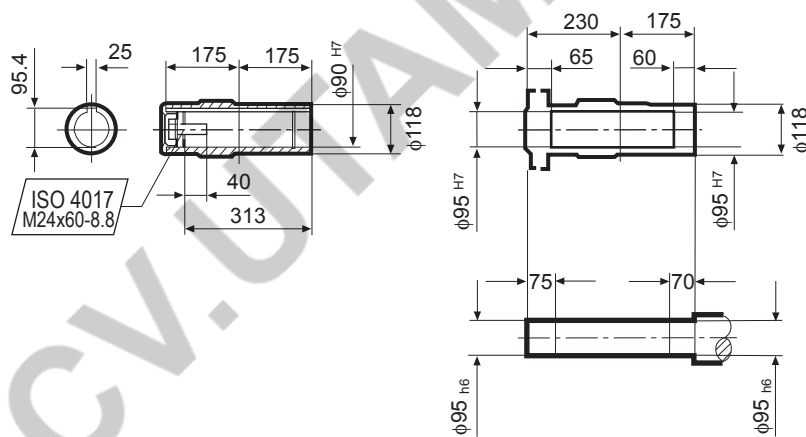
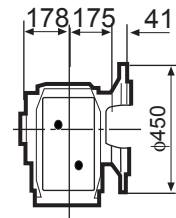
TKAF 107..



TKHF 107..

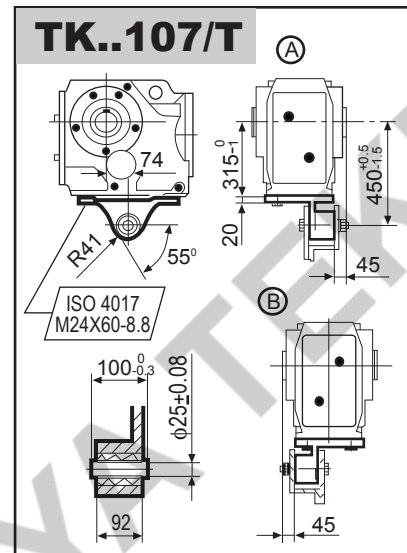
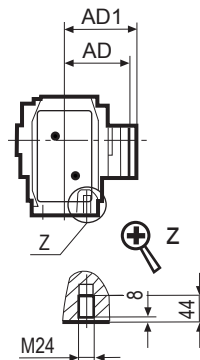


TKVF 107..

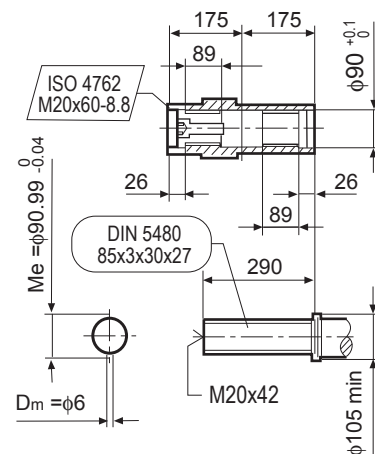
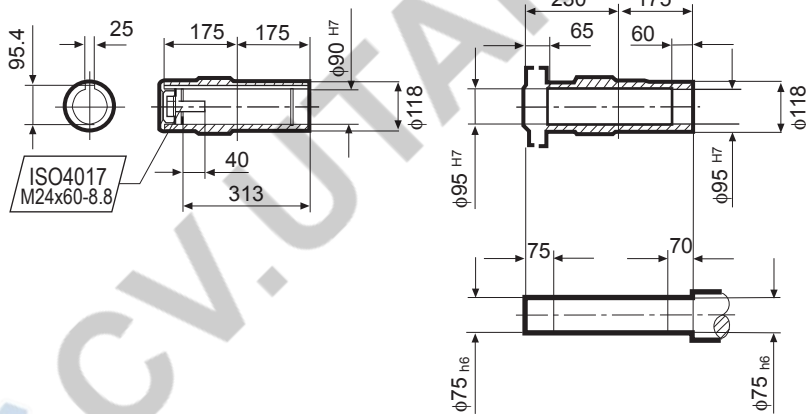


	Y100L	Y112M	Y132S	Y132M	Y132ML	Y160M	Y160L	Y180..	Y200..	Y225..	
AC	197	221	221	275	275	275	331	331	394	394	
AD	166	179	179	230	230	230	258	258	285	289	
AD1	166	182	182	230	230	230	258	258	285	289	
B	325	329	374	396	456	456	503	575	623	705	
B1	410	409	454	508	568	568	659	731	779	861	
L	862	866	911	933	993	993	1040	1112	1160	1242	
L1	947	946	991	1045	1105	1105	1196	1268	1316	1398	

TKA 107..

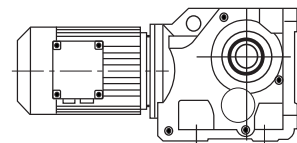


TKA 107..

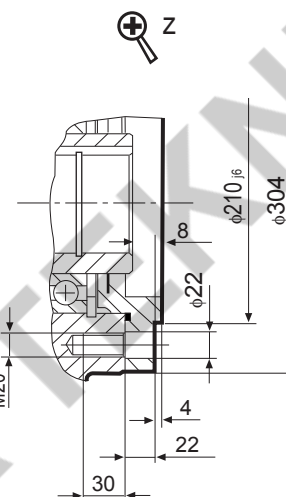
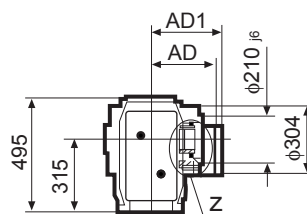
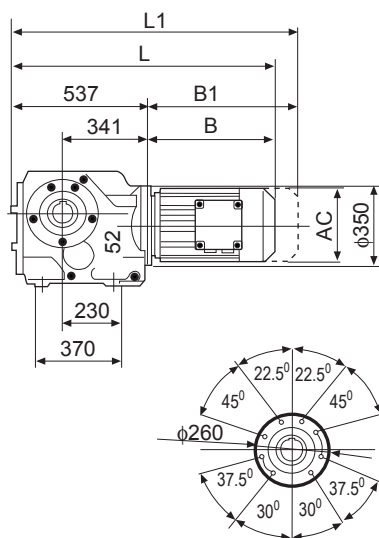


	Y100L	Y112M	Y132S	Y132M	Y132ML	Y160M	Y160L	Y180..	Y200..	Y225..	
AC	197	221	221	275	275	275	331	331	394	394	
AD	166	179	179	230	230	230	258	258	285	289	
AD1	166	182	182	230	230	230	258	258	285	289	
B	325	329	374	396	456	456	503	575	623	705	
B1	410	409	454	508	568	568	659	731	779	861	
L	862	866	911	933	993	993	1040	1112	1160	1242	
L1	947	946	991	1045	1105	1105	1196	1268	1316	1398	

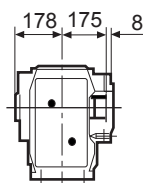
OUTLINE DIMENSION SHEET



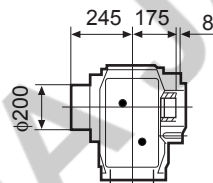
TKAZ 107..



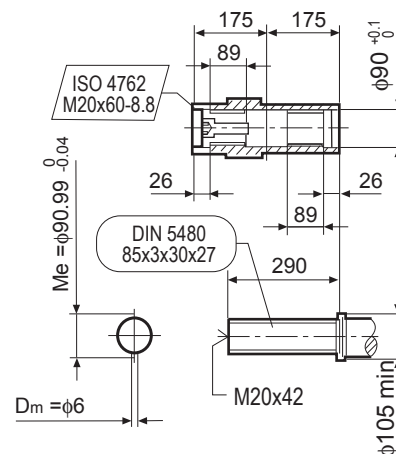
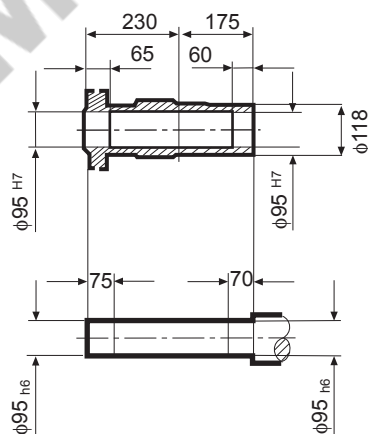
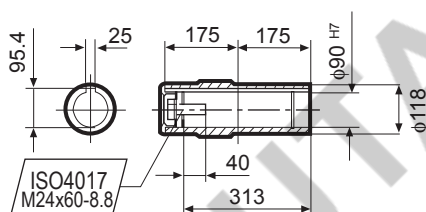
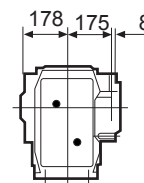
TKAZ 107..



TKHZ 107..

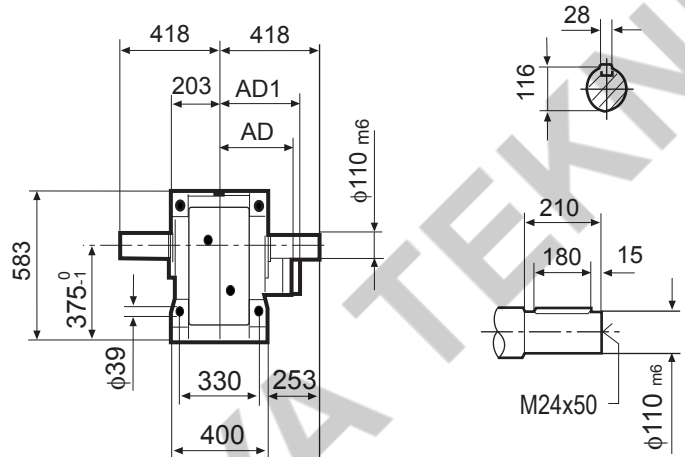
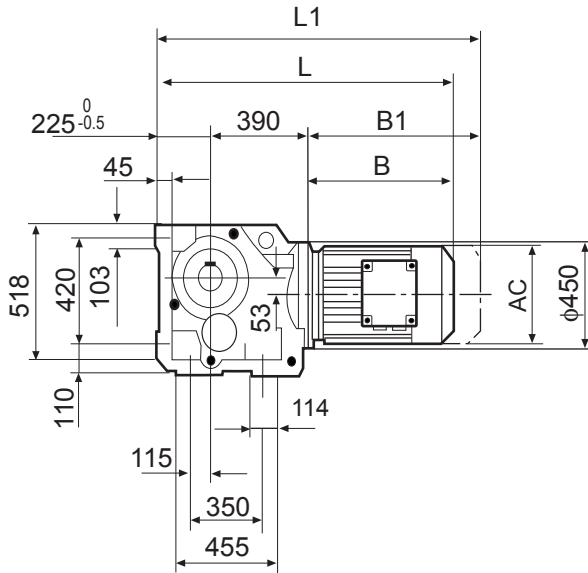


TKVZ 107..

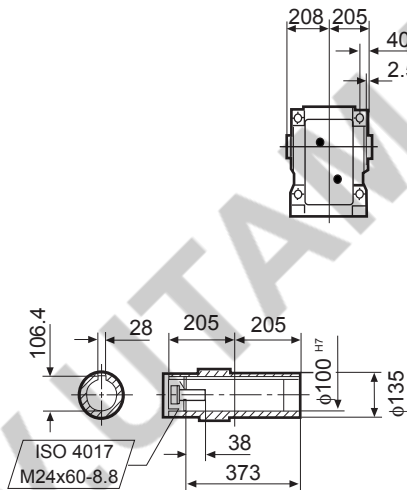


	Y100L□	Y112M□	Y132S□	Y132M□	Y132ML□	Y160M□	Y160L□	Y180..□	Y200..□	Y225..□	
AC□	197□	221□	221□	275□	275□	275□	331□	331□	394□	394□	
AD□	166□	179□	179□	230□	230□	230□	258□	258□	285□	289□	
AD1□	166□	182□	182□	230□	230□	230□	258□	258□	285□	289□	
B□	325□	329□	374□	396□	456□	456□	503□	575□	623□	705□	
B1□	410□	409□	454□	508□	568□	568□	659□	731□	779□	861□	
L□	862□	866□	911□	933□	993□	993□	1040□	1112□	1160□	1242□	
L1□	947□	946□	991□	1045□	1105□	1105□	1196□	1268□	1316□	1398□	

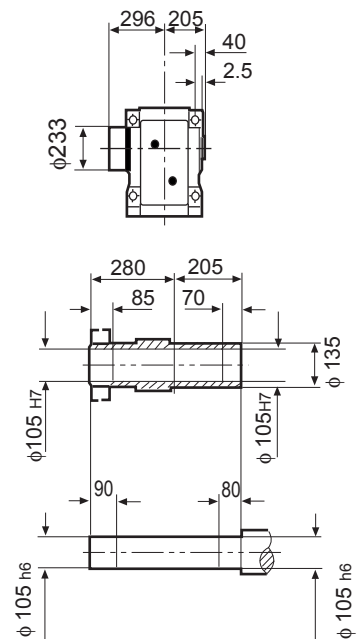
TK 127..



TKA 127B..

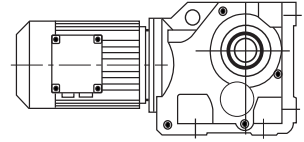


TKH 127B..

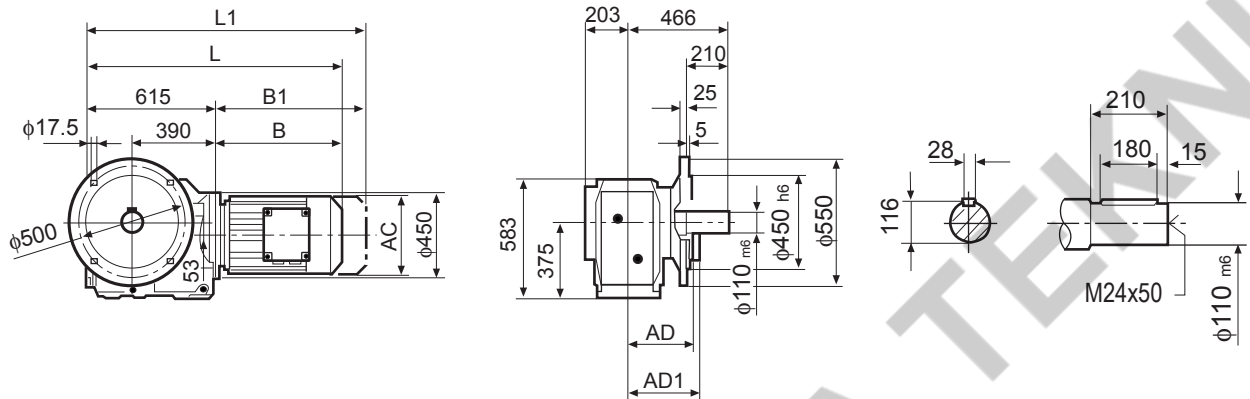


	Y132M	Y132ML	Y160M	Y160L	Y180..	Y200..	Y225..	Y250M	Y280..		
AC	275	275	275	331	331	394	394	510	510		
AD	230	230	230	258	258	285	289	397	397		
AD1	230	230	230	258	258	285	289	397	397		
B	381	441	441	488	560	608	690	780	780		
B1	493	553	553	644	716	764	846	965	965		
L	996	1056	1056	1103	115	1223	1305	1395	1395		
L1	1108	1168	1168	1259	1331	1379	1461	1580	1580		

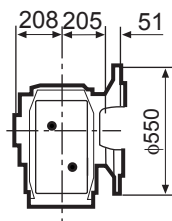
OUTLINE DIMENSION SHEET



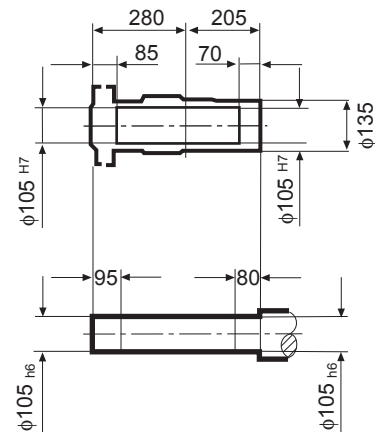
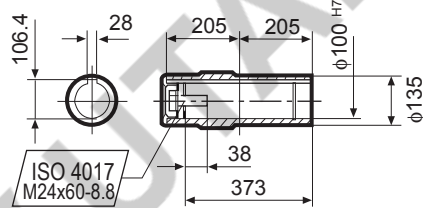
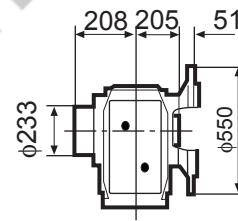
TKF 127..



TKAF 127..

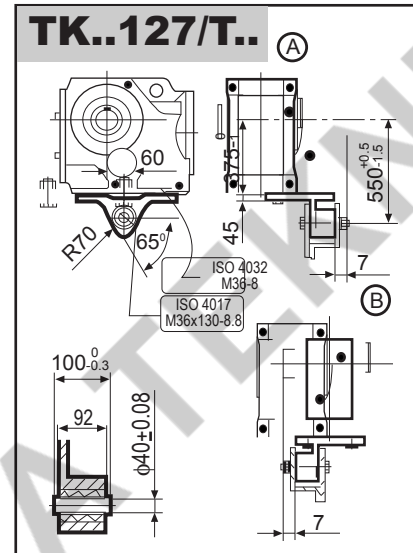
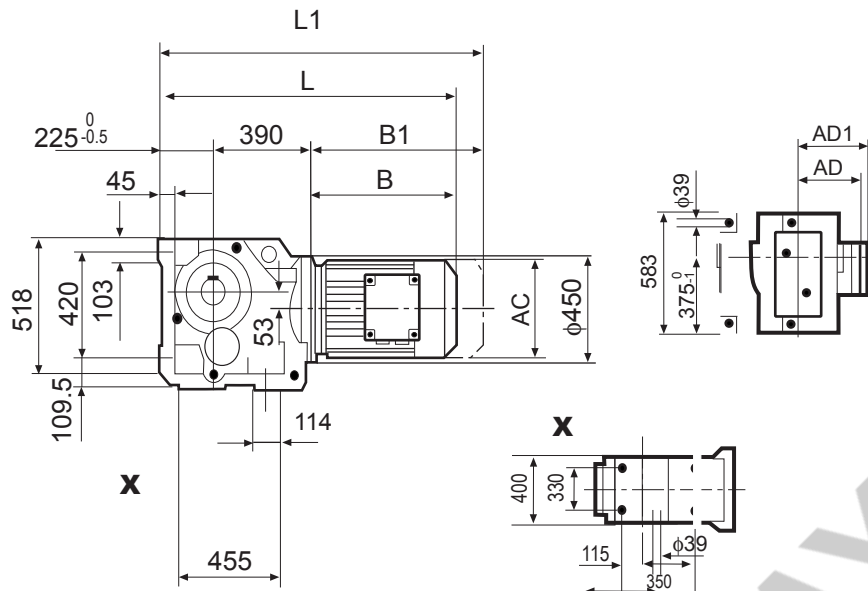


TKHF 127..



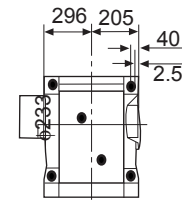
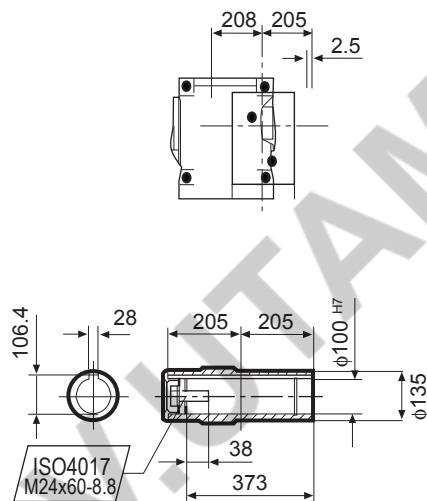
	Y132M	Y132ML	Y160M	Y160L	Y180..	Y200..	Y225..	Y250M	Y280..		
AC	275	275	275	331	331	394	394	510	510		
AD	230	230	230	258	258	285	289	397	397		
AD1	230	230	230	258	258	285	289	397	397		
B	381	441	441	488	560	608	690	780	780		
B1	493	553	553	644	716	764	846	965	965		
L	996	1056	1056	1103	1175	1223	1305	1395	1395		
L1	1108	1168	1168	1259	1331	1379	1461	1580	1580		

TKA 127..



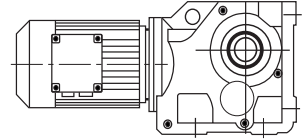
TKA 127..

TKH 127..

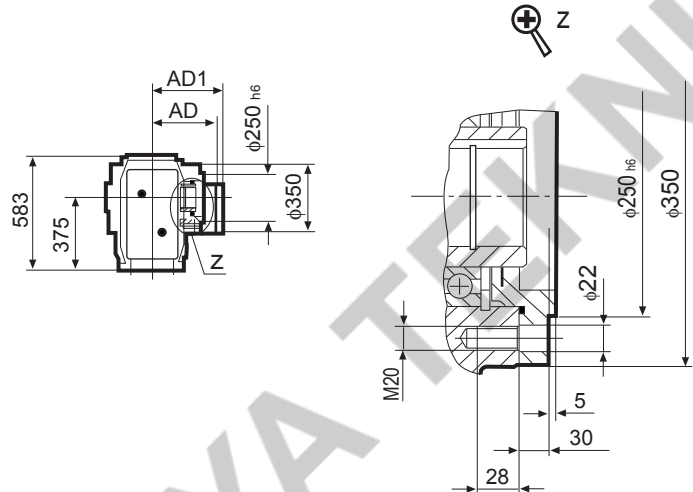
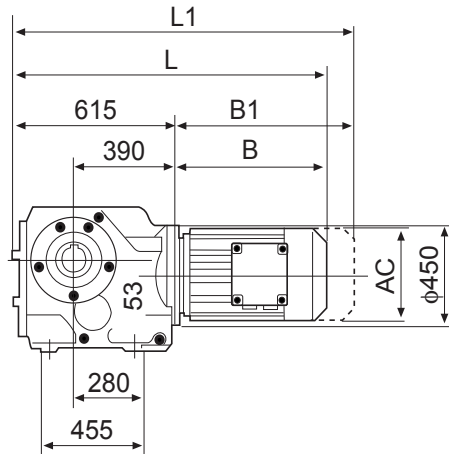


	Y132M	Y132ML	Y160M	Y160L	Y180..	Y200..	Y225..	Y250M	Y280..		
AC	275	275	275	331	331	394	394	510	510		
AD	230	230	230	258	258	285	289	397	397		
AD1	230	230	230	258	258	285	289	397	397		
B	381	441	441	488	560	608	690	780	780		
B1	493	553	553	644	716	764	846	965	965		
L	996	1056	1056	1103	1175	1223	1305	1395	1395		
L1	1108	1168	1168	1259	1331	1379	1461	1580	1580		

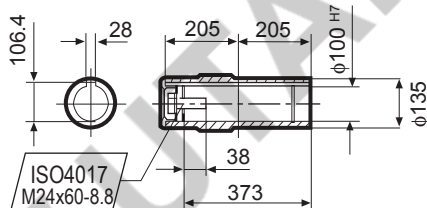
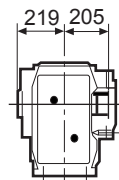
OUTLINE DIMENSION SHEET



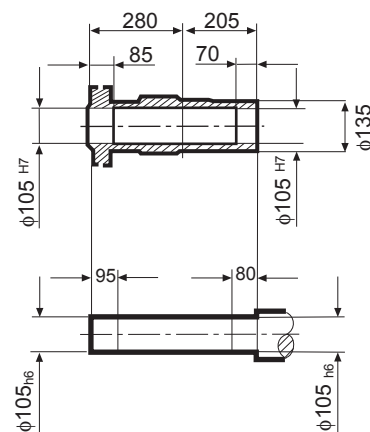
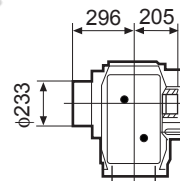
TKAZ 127..



TKAZ 127..

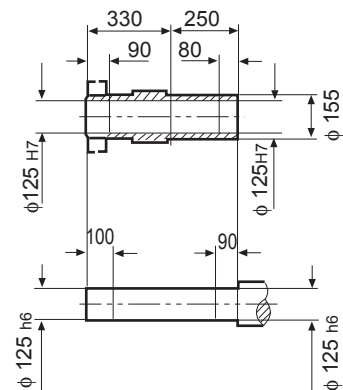
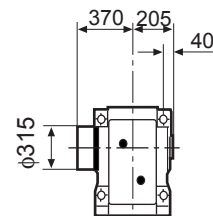
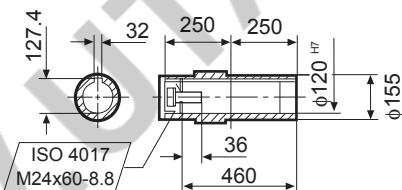
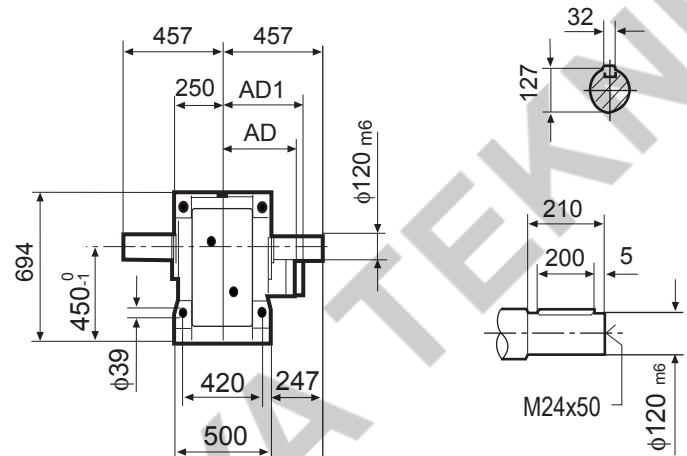


TKHZ 127..



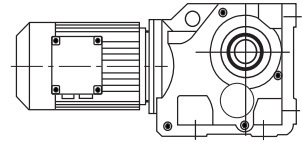
	Y132M	Y132ML	Y160M	Y160L	Y180..	Y200..	Y225..	Y250M	Y280..		
AC	275	275	275	331	331	394	394	510	510		
AD	230	230	230	258	258	285	289	397	397		
AD1	230	230	230	258	258	285	289	397	397		
B	381	441	441	488	560	608	690	780	780		
B1	493	553	553	644	716	764	846	965	965		
L	996	1056	1056	1103	1175	1223	1305	1395	1395		
L1	1108	1168	1168	1259	1331	1379	1461	1580	1580		

TK 157..

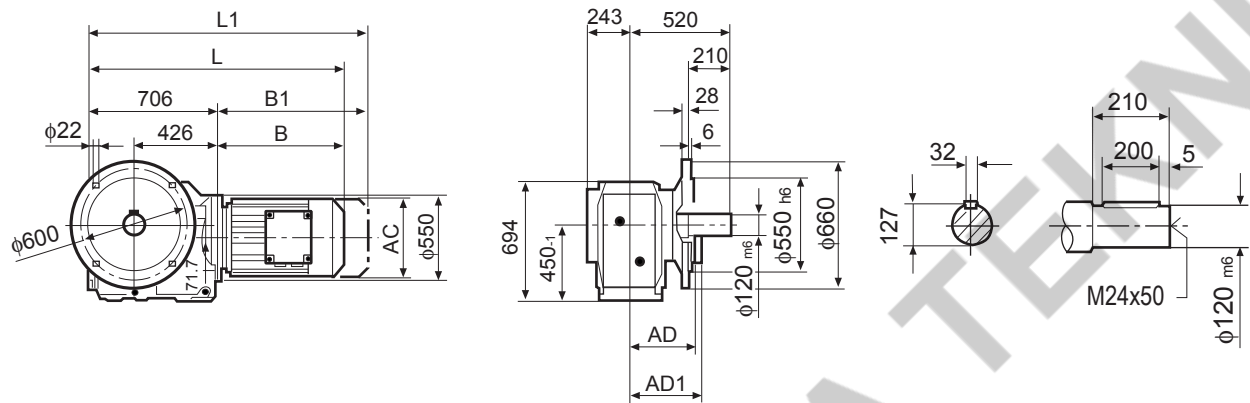


	Y160M	Y160L	Y180	Y200	Y225	Y250M	Y280	Y315S	Y315M		
AC	275	331	331	394	394	510	510	612	612		
AD	230	258	258	285	289	397	397	430	430		
AD1	230	258	258	285	289	397	397	430	430		
B	433	480	552	600	682	771	771	999	1050		
B1	545	636	708	756	838	956	956	1210	1261		
L	1139	1186	1258	1306	1338	1477	1477	1705	1756		
L1	1251	1342	1414	1462	1544	1662	1662	1916	1967		

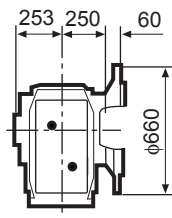
OUTLINE DIMENSION SHEET



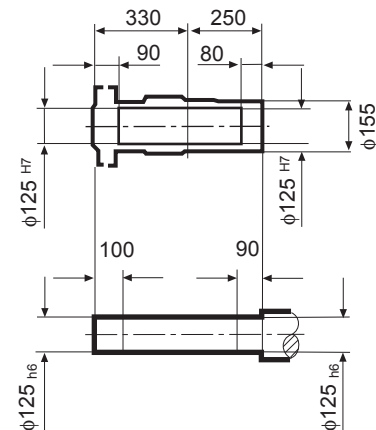
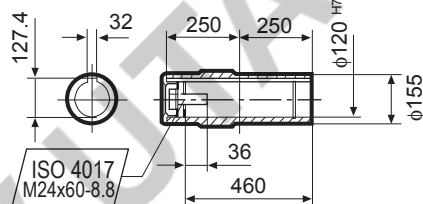
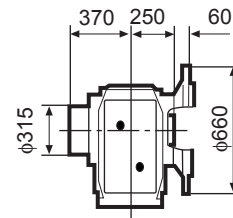
TKF 157..



TKAF 157..

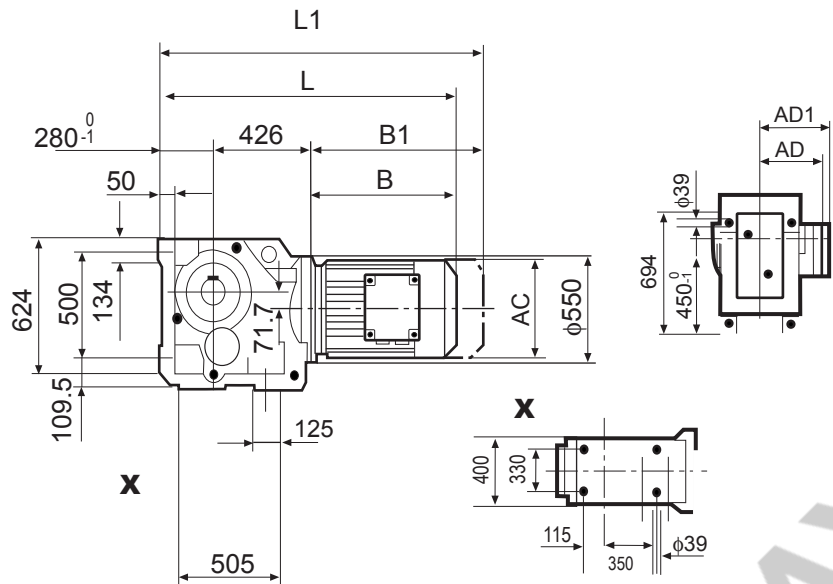


TKHF 157..

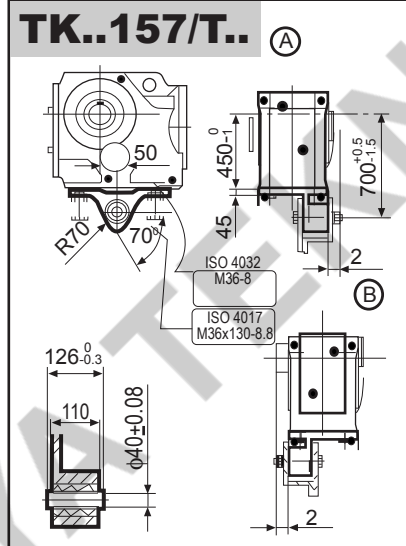
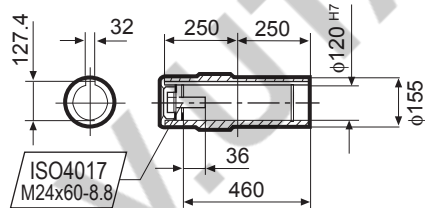
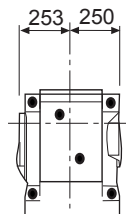


	Y160M□	Y160L□	Y180..□	Y200..□	Y225..□	Y250M□	Y280..□	Y315S□	Y315M		
AC□	275□	331□	331□	394□	394□	510□	510□	612□	612		
AD□	230□	258□	258□	285□	289□	397□	397□	430□	430		
AD1□	230□	258□	258□	285□	289□	397□	397□	430□	430		
B□	433□	480□	552□	600□	682□	771□	771□	999□	1050		
B1□	545□	636□	708□	756□	838□	956□	956□	1210□	1261		
L□	1139□	1186□	1258□	1306□	1388□	1477□	1477□	1705□	1756		
L1□	1251□	1342□	1414□	1462□	1544□	1662□	1662□	1916	1967		

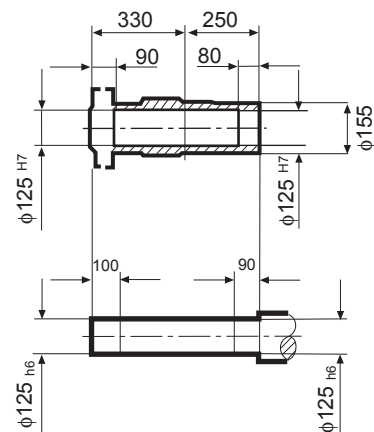
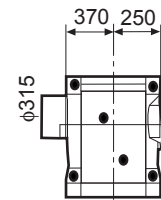
TKA 157..



TKA 157..

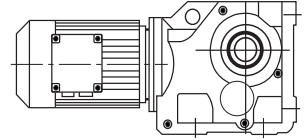


TKH 157..

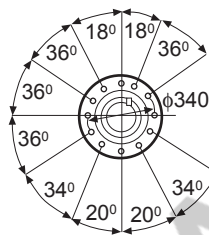
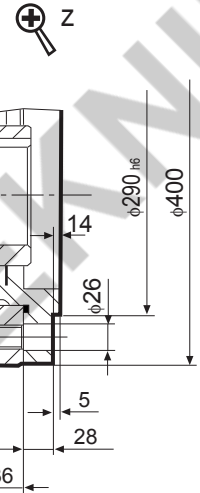
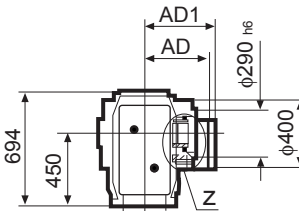
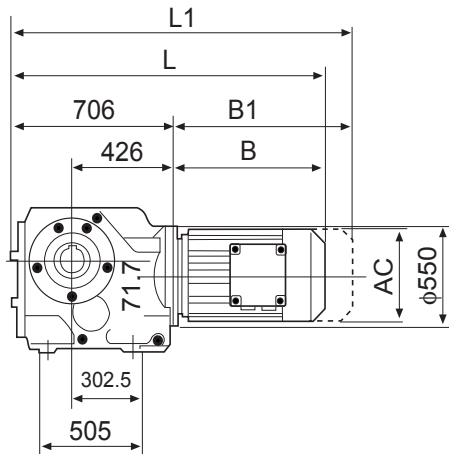


	Y160M	Y160L	Y180..	Y200..	Y225...	Y250M	Y280..	Y315S	Y315M		
AC	275	331	331	394	394	510	510	612	612		
AD	230	258	258	285	289	397	397	430	430		
AD1	230	258	258	285	289	397	397	430	430		
B	433	480	552	600	682	771	771	999	1050		
B1	545	636	708	756	838	956	956	1210	1261		
L	1139	1186	1258	1306	1 388	1477	1477	1705	1756		
L1	1251	1342	1414	1462	1544	1662	1662	1916	1967		

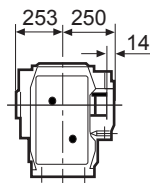
OUTLINE DIMENSION SHEET



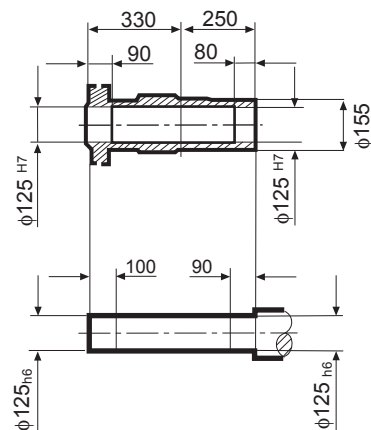
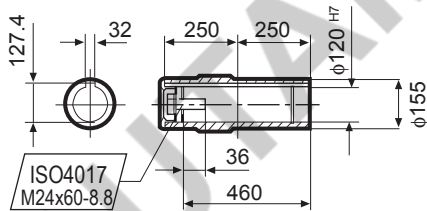
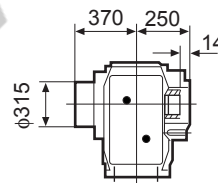
TKAZ 157..



TKAZ 157..

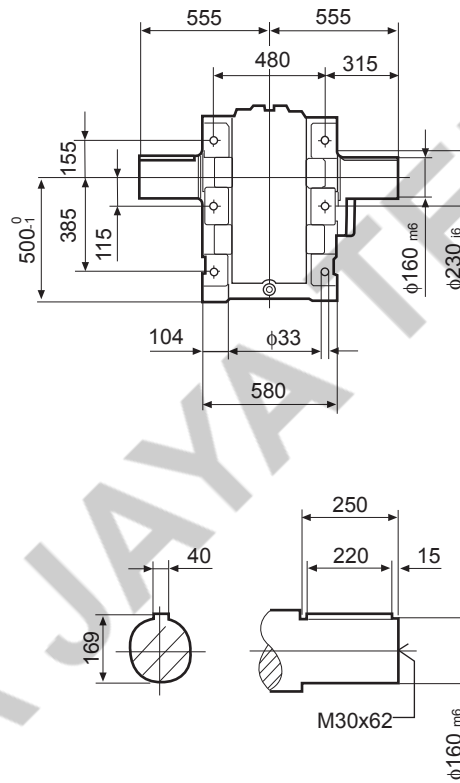
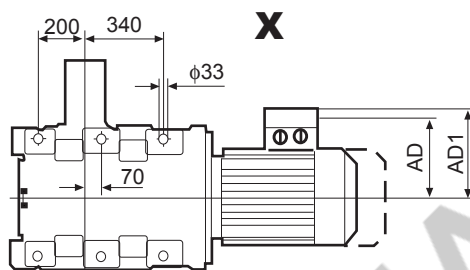
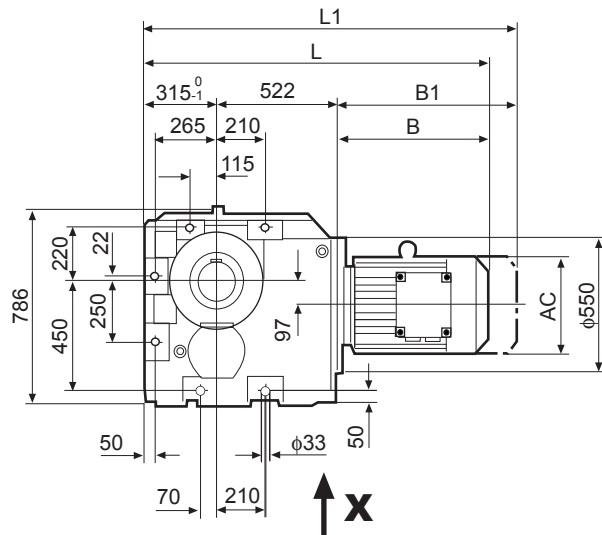


TKHZ 157..

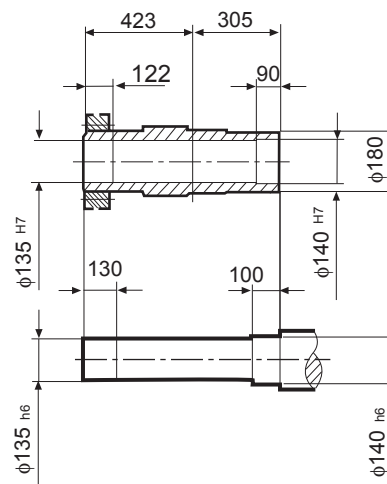
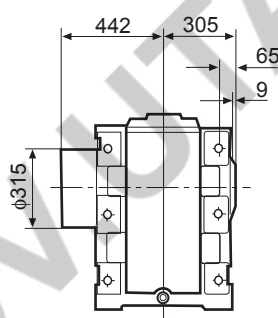


	Y160M	Y160L	Y180..	Y200..	Y225..	Y250M	Y280..	Y315S	Y315M		
AC	275	331	331	394	394	510	510	612	612		
AD	230	258	258	285	289	397	397	430	430		
AD1	230	258	258	285	289	397	397	430	430		
B	433	480	552	600	682	771	771	999	1050		
B1	545	636	708	756	838	956	956	1210	1261		
L	1139	1186	1258	1306	1388	1477	1477	1705	1756		
Li	1251	1342	1414	1462	1544	1662	1662	1916	1967		

TK 167..

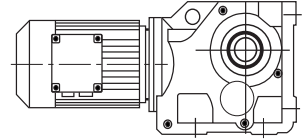


TKH167B..

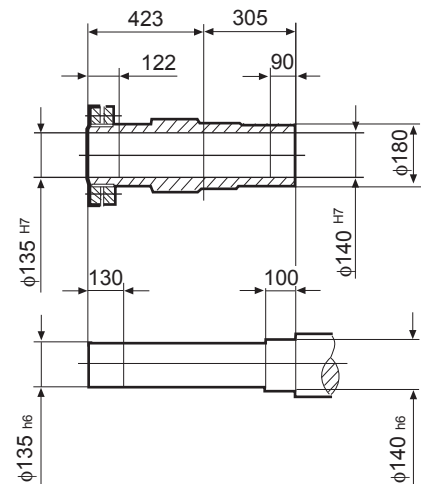
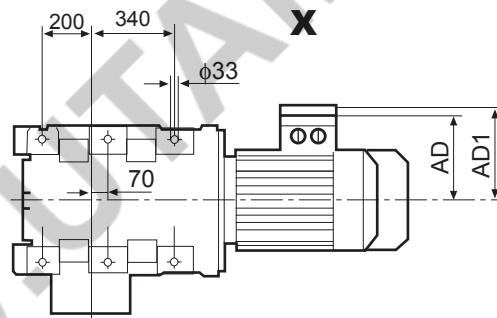
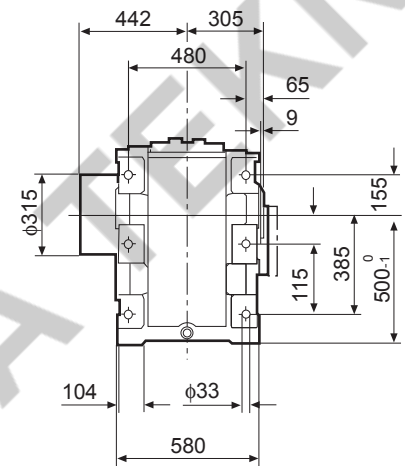
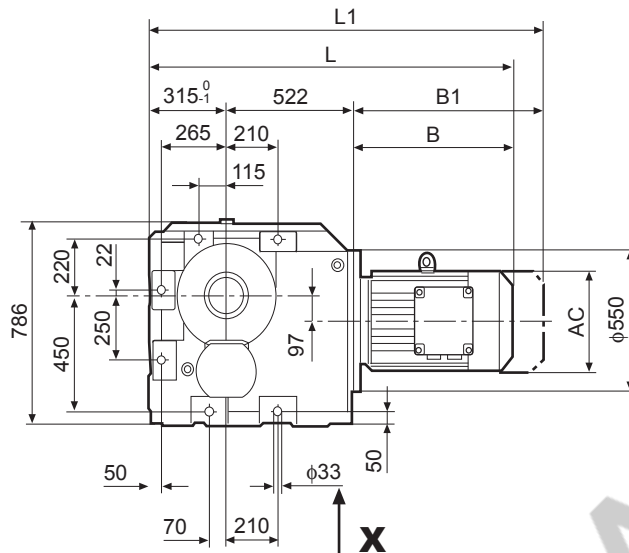


	Y160M	Y160..	Y180..	Y200..	Y225..	Y250M	Y280..	Y315S	Y315M		
AC	275	331	331	394	394	510	510	612	612		
AD	230	258	258	285	289	397	397	430	430		
AD1	230	258	258	285	289	397	397	430	430		
B	433	480	552	600	682	771	771	999	1050		
B1	545	636	708	756	838	956	956	1210	1261		
L	1270	1317	1389	1437	1519	1608	1608	1836	1887		
L1	1382	1473	1545	1593	1675	1793	1793	2047	2098		

OUTLINE DIMENSION SHEET

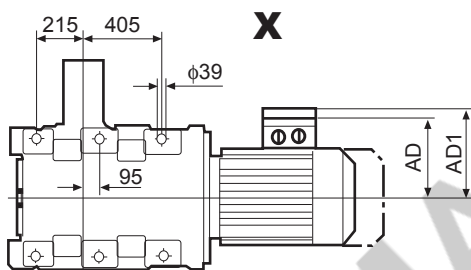
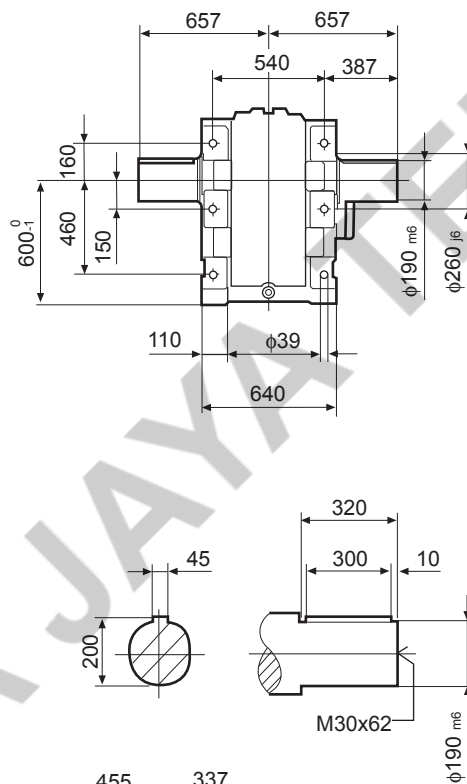
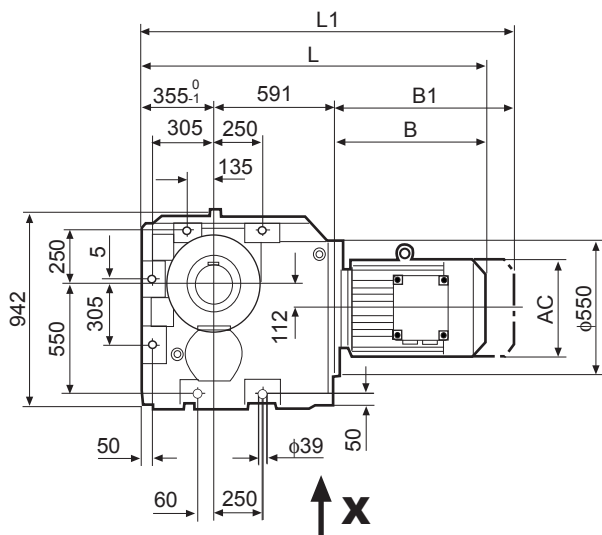


TKF 167..

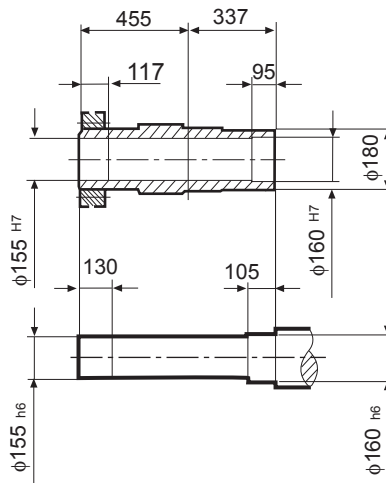
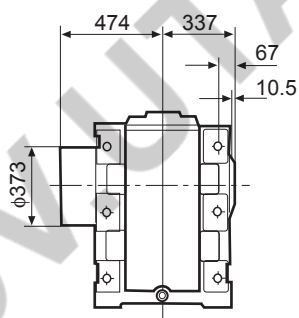


	Y160M□	Y160L□	Y180..□	Y200..□	Y225..□	Y250M□	Y280..□	Y315S□	Y315M□		
AC□	275□	331□	331□	394□	394□	510□	510□	612□	612		
AD□	230□	258□	258□	285□	289□	397□	397□	430□	430		
AD1□	230□	258□	258□	285□	289□	397□	397□	430□	430		
B□	433□	480□	552□	600□	682□	771□	771□	999□	1050		
B1□	545□	636□	708□	756□	838□	956□	956□	1210□	1261		
L□	1270□	1317□	1389□	1437□	1519□	1608□	1608□	1836□	1887		
L1□	1382□	1473□	1545□	1593□	1675□	1793□	1793□	2047	2098		

TKF 187..

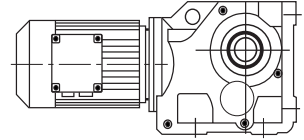


TKH187B..

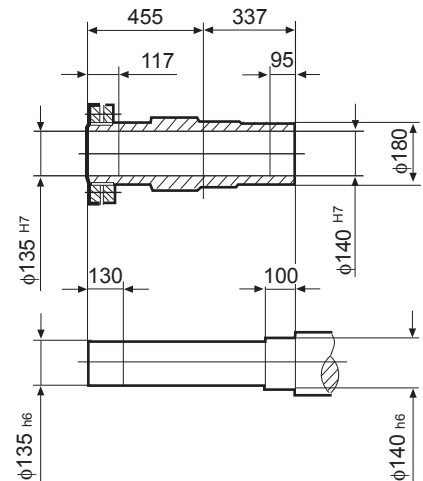
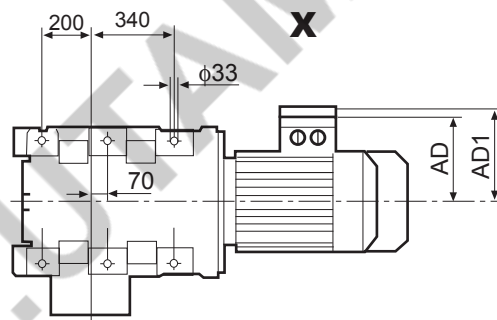
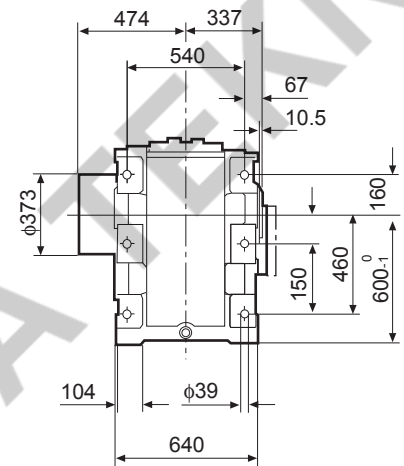
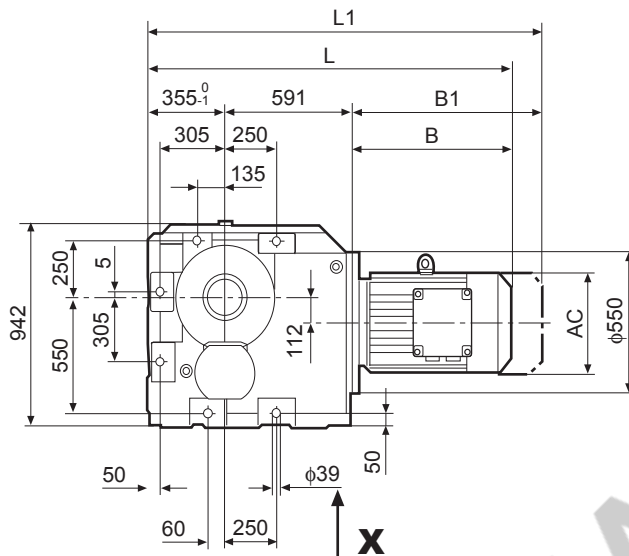


	Y180..□	Y200..□	Y225..□	Y250M□	Y280..□	Y315S□	Y315M				
AC□	331□	394□	394□	510□	510□	612□	612				
AD□	258□	285□	289□	397□	397□	430□	430				
AD1□	258□	285□	289□	397□	397□	430□	430				
B□	552□	600□	682□	771□	771□	999□	1050				
B1□	708□	756□	838□	956□	956□	1210□	1261				
L□	1498□	1546□	1628□	1717□	1717□	1945□	1996				
L1□	1654□	1702□	1784□	1902□	1902□	2156	2207				

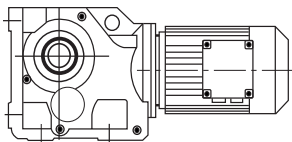
OUTLINE DIMENSION SHEET



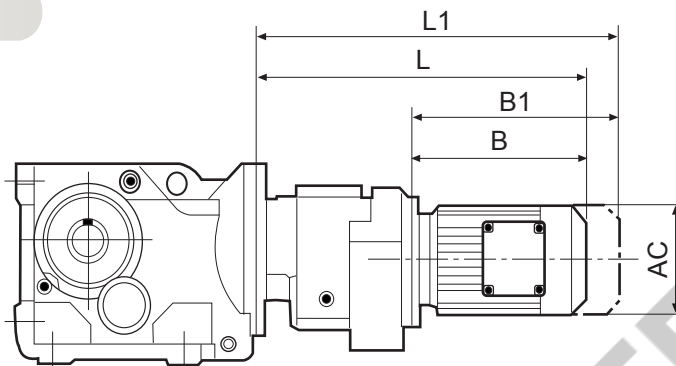
TKF 167..



	Y180..	Y200..	Y225..	Y250M	Y280..	Y315S	Y315M			
AC	331	394	394	510	510	612	612			
AD	258	285	289	397	397	430	430			
AD1	258	285	289	397	397	430	430			
B	552	600	682	771	771	999	1050			
B1	708	756	838	956	956	1210	1261			
L	1498	1546	1628	1717	1717	1945	1996			
L1	1654	1702	1784	1902	1902	2156	2207			



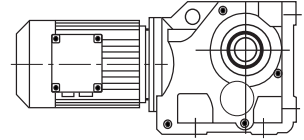
TK../TRF..



TK../TRF..□	Y..□	AC□	L□	L1□	B□	B1□
TK..37/TRF17□	Y63..□	132□	324□	379□	149□	204□
	Y71D□	145□	339□	403□	164□	228□
	Y80..□	145□	389□	453□	214□	278□
TK..47/TRF37□	Y63..□	132□	356□	411□	191□	246□
	Y71D□	145□	371□	435□	206□	270□
	Y80..□	145□	421□	485□	256□	320□
TK..57/TRF37□ TK..67/TRF37□	Y63..□	132□	356□	411□	191□	246□
	Y71D□	145□	371□	435□	206□	270□
	Y80..□	145□	421□	485□	256□	320□
TK..77/TRF37□	Y90..□	197□	441□	526□	276□	361□
	Y63..□	132□	348□	403□	191□	246□
	Y71D□	145□	363□	427□	206□	270□
TK..87/TRF57□	Y80..□	145□	413□	477□	256□	320□
	Y90..□	197□	433□	518□	276□	361□
	Y63..□	132□	401□	456□	185□	240□
TK..97/TRF57□	Y71D□	145□	415□	479□	199□	263□
	Y80..□	145□	465□	529□	249□	313□
	Y90..□	197□	485□	570□	269□	354□
TK..107/TRF77..□	Y100M□	197□	535□	620□	319□	404□
	Y100L□	197□	565□	650□	349□	434□
	Y63..□	132□	396□	451□	185□	240□
TK..117/TRF77..□	Y71D□	145□	410□	474□	199□	263□
	Y80..□	145□	460□	524□	249□	313□
	Y90..□	197□	480□	565□	269□	354□
TK..127/TRF77..□	Y100M□	197□	530□	615□	319□	404□
	Y100L□	197□	560□	645□	349□	434□
	Y112M□	221□	565□	645□	354□	434□
TK..137/TRF77..□	Y63..□	132□	426□	481□	179□	234□
	Y71D□	145□	440□	504□	193□	257□
	Y80..□	145□	490□	554□	243□	307□
TK..147/TRF77..□	Y90..□	197□	508□	593□	261□	346□
	Y100M□	197□	558□	643□	311□	396□
	Y100L□	197□	588□	673□	341□	426□
TK..157/TRF77..□	Y112M□	221□	592□	672□	345□	425□
	Y132S□	221□	637□	717□	390□	470□
	Y132M□	275□	659□	771□	412□	524□
TK..167/TRF77..□	Y132ML□	275□	719□	831□	472□	584□
	Y160M□	275□	719□	831□	472□	584□

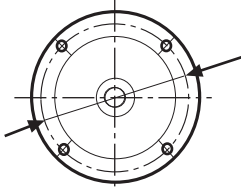
TK../TRF..□	Y..□	AC□	L□	L1□	B□	B1□
TK..127/TRF77□	Y63..□	132□	411□	466□	179□	234□
	Y71D□	145□	425□	489□	193□	257□
	Y80..□	145□	475□	539□	243□	307□
	Y90..□	197□	493□	578□	261□	346□
	Y100M□	197□	543□	628□	311□	396□
	Y100L□	197□	573□	658□	341□	426□
	Y112M□	221□	577□	657□	345□	425□
	Y132S□	221□	622□	702□	390□	470□
	Y132M□	275□	644□	756□	412□	524□
	Y132ML□	275□	704□	816□	472□	584□
	Y160M□	275□	704□	816□	472□	584□
	Y90..□	197□	537□	622□	257□	342□
TK..127/TRF87□	Y100M□	197□	587□	672□	307□	392□
	Y100L□	197□	617□	702□	337□	422□
	Y112M□	221□	620□	700□	340□	420□
	Y132S□	221□	665□	745□	385□	465□
	Y132M□	275□	687□	799□	407□	519□
	Y132ML□	275□	747□	859□	467□	579□
	Y160M□	275□	747□	859□	467□	579□
	Y160L□	331□	794□	950□	514□	670□
	Y180..□	331□	866□	1022□	586□	742□
	Y80..□	145□	556□	620□	231□	295□
	Y90..□	197□	576□	661□	251□	336□
	Y100M□	197□	626□	711□	301□	386□
TK..157/TRF97□ TKH167/BTRF97□ TKH187/TRF97□ TKH187/BTRF97□	Y100L□	197□	656□	741□	331□	416□
	Y112M□	221□	660□	740□	335□	415□
	Y132S□	221□	705□	785□	380□	460□
	Y132M□	275□	727□	839□	402□	514□
	Y132ML□	275□	787□	899□	462□	574□
	Y160M□	275□	787□	899□	462□	574□
	Y160L□	331□	834□	990□	509□	665□
	Y180..□	331□	906□	1062□	581□	737□
	Y200..□	394□	954□	1110□	629□	785□
	Y100M□	197□	677□	762□	295□	380□
	Y100L□	197□	707□	792□	325□	410□
	Y112M□	221□	711□	791□	329□	409□
TK..157/TRF107□ TKH167B/TRF107□ TKH187/TRF107□ TKH187/BTRF107□	Y132S□	221□	756□	836□	374□	454□
	Y132M□	275□	778□	890□	396□	508□
	Y132ML□	275□	838□	950□	456□	568□
	Y160M□	275□	838□	950□	456□	568□
	Y160L□	331□	885□	1041□	503□	659□
	Y180..□	331□	957□	1113□	575□	731□
	Y200..□	394□	1005□	1161□	623□	779□
	Y225..□	394□	1087□	1243□	705□	861□

OUTLINE DIMENSION SHEET

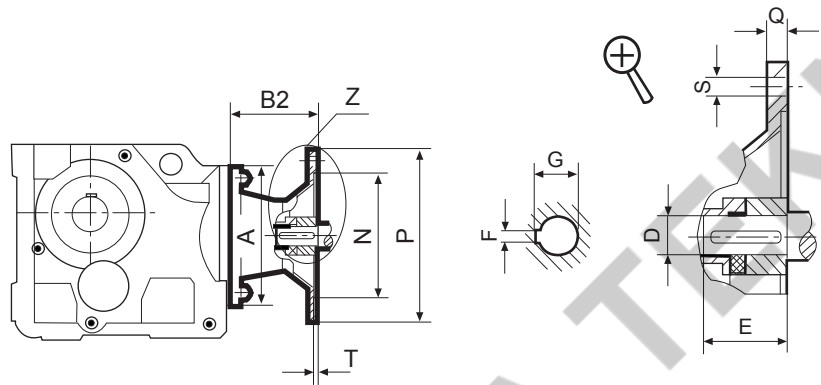
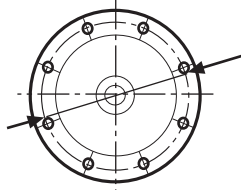


TK../AM(IEC)../

1 / Flange. 1

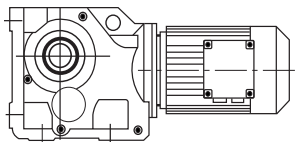


2 / Flange. 2



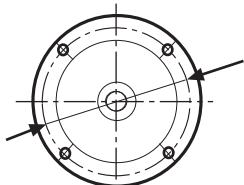
TK..□	AM..□	Flange.□	A□	B2□	D□	E□	F□	G□	M□	N□	P□	Q□	S□	T
TK..37□	AM63□	1	120	72	11□	23□	4□	12.8□	115□	95□	140□	10□	4-Φ9□	3.5
	AM71 1)□				14□	30□	5□	16.3□	130□	110□	160□			
	AM80 1)□			106	19□	40□	6□	21.8□	165□	130□	200□	12□	4-Φ11□	4.5
	AM90 1)□				24□	50□	8□	27.3□						
TK..47 2)□ TK..57□ TK..67□	AM63□	1	160	66	11□	23□	4□	12.8□	115□	95□	140□	10□	4-Φ9□	3.5
	AM71				14□	30□	5□	16.3□	130□	110□	160□			
	AM80			99	19□	40□	6□	21.8□	165□	130□	200□	12□	4-Φ11□	4.5
	AM90				24□	50□	8□	27.3□						
	AM100 1)□			134	28□	60□	8□	31.3□	215□	180□	250□	15□	4-Φ13.5□	5
	AM112 1)□				38□	80□	10□	41.3□						
	AM132S/M 1)□			191	38□	80□	10□	41.3□	265□	230□	300□	16□		
TK..77□	AM63□	1	200	60	11□	23□	4□	12.8□	115□	95□	140□	10□	4-Φ9□	3.5
	AM71□				14□	30□	5□	16.3□	130□	110□	160□			
	AM80□			92	19□	40□	6□	21.8□	165□	130□	200□	12□	4-Φ11□	4.5
	AM90				24□	50□	8□	27.3□						
	AM100 1)□			126	28□	60□	8□	31.3□	215□	180□	250□	15□	4-Φ13.5□	5
	AM112 1)□				38□	80□	10□	41.3□						
	AM132S/M 1)□			179	38□	80□	10□	41.3□	265□	230□	300□	16□		
TK..87□	AM80□	1	250	87	19□	40□	6□	21.8□	165□	130□	200□	12□	4-Φ11□	4.5
	AM90□				24□	50□	8□	27.3□						
	AM100□			121	28□	60□	8□	31.3□	215□	180□	250□	15□	4-Φ13.5□	5
	AM112				38□	80□	10□	41.3□						
	AM132S/M□			174	38□	80□	10□	41.3□	265□	230□	300□	16□		
	AM132ML				42□	110	12□	45.3□						
	AM160 1)□			232	48		14□	51.8□	300□	250□	350□	18□	4-Φ17.5□	6

1. Dimension P/2 may protrude past foot mounting surface, please check.
2. Not with AM112

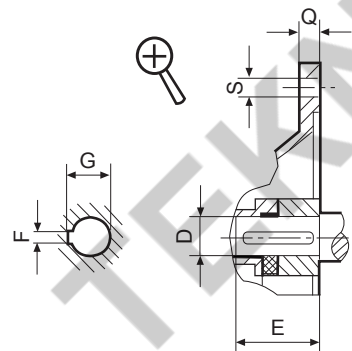
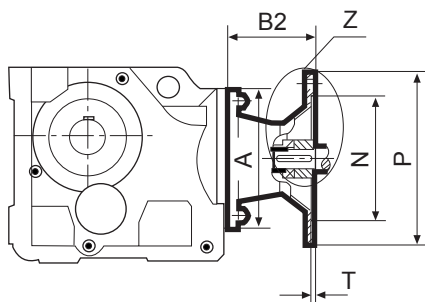
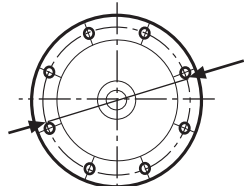


TK../AM(IEC)..

1 / Flange. 1

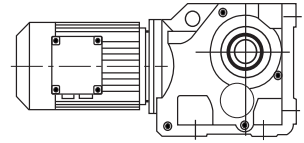


2 / Flange. 2

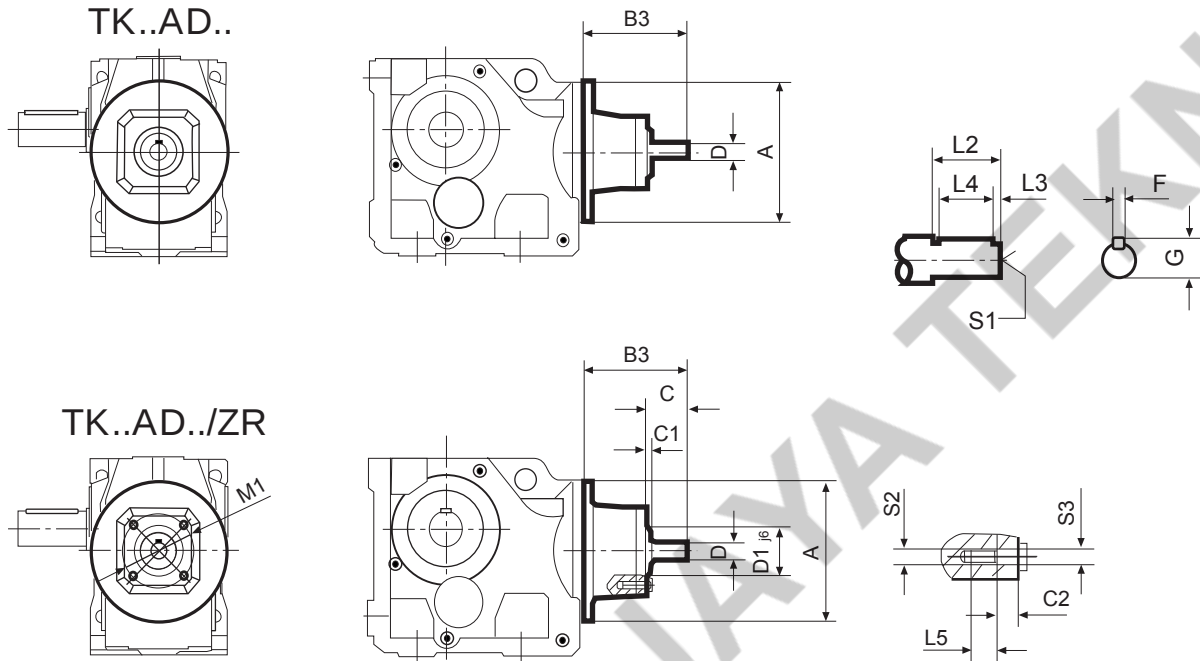


TK..□	AM..□	Flange.□	A□	B2□	D□	E□	F□	G□	M□	N□	P□	Q□	S□	T
TK..97□	AM100□	1□	300□	116□	28□	60□	8□	31.3□	215□	180□	250□	15□	4-13 φ13.5	5
	AM112□			169□	38□	80□	10□	41.3□	265□	230□	300□	16□		
	AM132S/M□			169□	38□	80□	10□	41.3□	265□	230□	300□	16□		
	AM132ML□			169□	38□	80□	10□	41.3□	265□	230□	300□	16□	4-0 φ17.5	6
	AM160□			227□	48□	110□	12□	45.3□	300□	250□	350□	18□		
	AM180□			227□	48□	110□	14□	51.8□	300□	250□	350□	18□		
	AM200□			268□	55□	140□	16□	59.3□	350□	300□	400□	20□	8-0 φ17.5	7
TK..107□	AM100□	1□	350□	110□	28□	608□	8□	31.3□	215□	180□	250□	15□	4-0 φ13.5	5
	AM112□			163□	38□	80□	10□	41.3□	265□	230□	300□	16□		
	AM132S/M□			163□	38□	80□	10□	41.3□	265□	230□	300□	16□		
	AM132ML□			163□	38□	80□	10□	41.3□	265□	230□	300□	16□	4-0 φ17.5	6
	AM160□			221□	48□	110□	12□	45.3□	300□	250□	350□	18□		
	AM180□			221□	48□	110□	14□	51.8□	300□	250□	350□	18□		
	AM200□			262□	55□	140□	16□	59.3□	350□	300□	400□	20□	8-0 φ17.5	7
TK..127□	AM132S/M□	1□	450□	148□	38□	80□	10□	41.3□	265□	230□	300□	16□	4-0 φ13.5	5
	AM132ML□			148□	38□	80□	10□	41.3□	265□	230□	300□	16□		
	AM160□			206□	48□	110□	12□	45.3□	300□	250□	350□	18□		
	AM180□			206□	48□	110□	14□	51.8□	300□	250□	350□	18□	4-0 φ17.5	6
	AM200□			247□	55□	140□	16□	59.3□	350□	300□	400□	20□		
	AM225□			262□	60□	140□	18□	64.4□	400□	350□	450□	22□		
	AM250□			336□	75□	140□	20□	79.9□	500□	450□	550□	25□	8-0 φ17.5	7
TK..157□ TK..167□ TK..187	AM160□	1□	550	198□	48□	110□	12□	45.3□	300□	250□	350□	18□	4-0 φ17.5	6
	AM180□			239□	55□	140□	14□	51.8□	350□	300□	400□	20□		
	AM200□			254□	60□	140□	16□	59.3□	400□	350□	450□	22□		
	AM225□			328□	75□	140□	18□	64.4□	500□	450□	550□	25□	8-0 φ17.5	7
	AM280			328□	75□	140□	20□	79.9□	500□	450□	550□	25□		

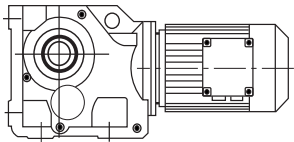
OUTLINE DIMENSION SHEET



TK..AD..

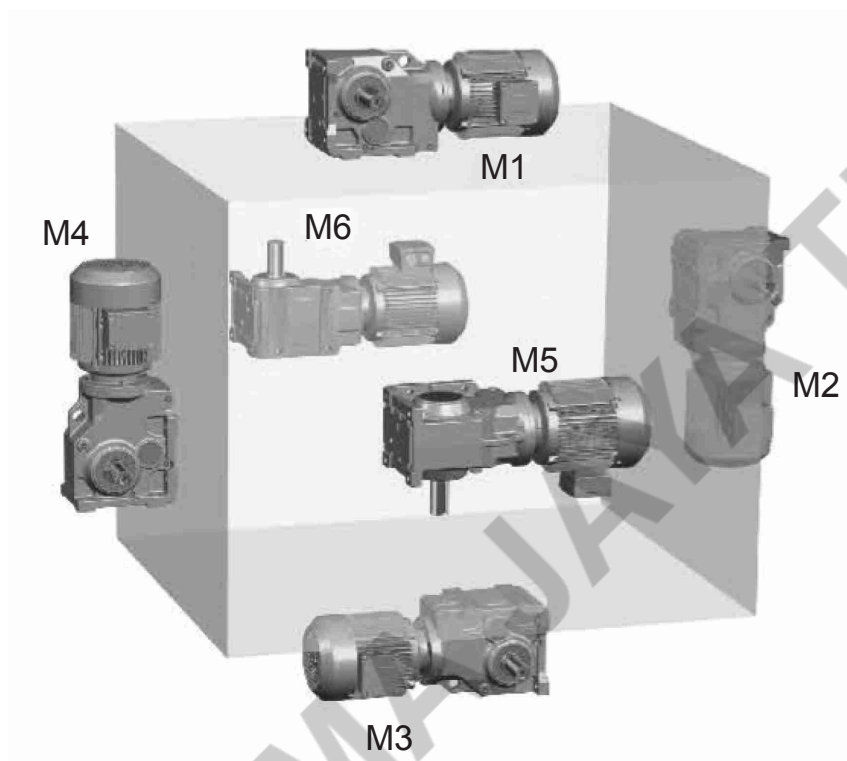


TK..□	AD..□	A□	B3□	C□	C1□	C2□	D□	D1□	F□	G□	L2□	L3□	L4□	L5□	M1□	S1□	S2□	S3
TK..37 □	AD1□	120□	102□	-□	-□	-□	16□	-□	5□	18□	40□	4□	32□	-□	-□	M5X12.5□	-□	-□
	AD2,AD2/ZR□		130□	50□	8□	13.5□	19□	55□	6□	21.5□	40□	4□	32□	12□	80□	M6X16□	MB□	9
TK..47□	AD2,AD2/ZR□	160□	123□	50□	8□	13.5□	19□	55□	6□	21.5□	40□	4□	32□	12□	80□	M6X16□	MB□	9
TK..57□	AD3,AD3/ZR□		159□	60□	8□	15.5□	24□	70□	8□	27□	50□	5□	40□	16□	105□	MBX19□	M10□	11□
TK..77□	AD2,AD2/ZR□	200□	116□	50□	8□	13.5□	19□	55□	6□	21.5□	40□	4□	32□	12□	80□	M6X16□	M8□	9
	AD3,AD3/ZR□		151□	60□	8□	15.5□	24□	70□	8□	27□	50□	5□	40□	16□	105□	M8X19□	M10□	11□
	AD4,AD4/ZR□		224□	95.5□	13□	16□	38□	100□	10□	41□	80□	5□	70□	20□	130□	M12X28□	M12□	13.5□
TK..87□	AD2,AD2/ZR□	250□	111□	50□	8□	13.5□	19□	55□	6□	21.5□	40□	4□	32□	12□	80□	M6X16□	M8□	9
	AD3,AD3/ZR□		156□	70□	8□	15.5□	28□	70□	8□	31□	60□	5□	50□	16□	105□	M8X19□	M10□	11□
	AD4,AD4/ZR□		219□	95.5□	13□	16□	38□	100□	10□	41□	80□	5□	70□	20□	130□	M12X28□	M12□	13.5□
	AD5,AD5/ZR□		292□	126□	11□	24□	42□	120□	12□	45□	110□	10□	70□	20□	180□	M16X36□	M12□	13.5□
TK..97□	AD3,AD3/ZR□	300□	151□	70□	8□	15.5□	28□	70□	8□	31□	60□	5□	50□	16□	105□	M8X19□	M10□	11
	AD4,AD4/ZR□		214□	95.5□	13□	16□	38□	100□	10□	41□	80□	5□	70□	20□	130□	M12X28□	M12□	13.5□
	AD5,AD5/ZR□		287□	126□	11□	24□	42□	120□	12□	45□	110□	10□	70□	20□	180□	M16X36□	M12□	13.5□
	AD6,AD6/ZR□		327□	130.5□	11□	22.5□	48□	130□	14□	51.5□	110□	10□	80□	26□	200□	M16X36□	M16□	17.5□
TK..107□	AD3,AD3/ZR□	350□	145□	70□	8□	15.5□	28□	70□	8□	31□	60□	5□	50□	16□	105□	M8X19□	M10□	11
	AD4,AD4/ZR□		208□	95.5□	13□	16□	38□	100□	10□	41□	80□	5□	70□	20□	130□	M12X28□	M12□	13.5□
	AD5,AD5/ZR□		281□	126□	11□	24□	42□	120□	12□	45□	110□	10□	70□	20□	180□	M16X36□	M12□	13.5□
	AD6,AD6/ZR□		321□	130.5□	11□	22.5□	48□	130□	14□	51.5□	110□	10□	80□	26□	200□	M16X36□	M16□	17.5□
TK..127□	AD4,AD4/ZR□	450□	193□	95.5□	13□	16□	38□	100□	10□	41□	80□	5□	70□	20□	130□	M12X28□	M12□	13.5□
	AD5,AD5/ZR□		266□	126□	11□	24□	42□	120□	12□	45□	110□	10□	70□	20□	180□	M16X36□	M12□	13.5
	AD6,AD6/ZR□		306□	130.5□	11□	22.5□	48□	130□	114□	51.5□	110□	10□	80□	26□	200□	M16X36□	M16□	17.5□
	AD7,AD7/ZR□		300□	133□	13□	19□	55□	125□	16□	59□	110□	10□	90□	30□	190□	M20X42□	M20□	22□
	AD8,AD8/ZR□		383□	155□	5□	22.5□	70□	120□	20□	74.5□	140□	15□	110□	19.5□	210□	M20X42□	M12□	13.5
TK..157□	AD5,AD5/ZR□	550□	258□	126□	11□	24□	42□	120□	12□	45□	110□	10□	70□	20□	180□	M16X36□	M12□	13.5
TK..167□	AD6,AD6/ZR□		298□	130.5□	11□	22.5□	48□	130□	14□	51.5□	110□	10□	80□	26□	200□	M16X36□	M16□	17.5
TK..187□	AD7,AD7/ZR□		292□	133□	13□	19□	55□	125□	16□	59□	110□	10□	90□	30□	190□	M20X42□	M20□	22□
	AD8,AD8/ZR□		374□	155□	5□	22.5□	70□	120□	20□	74.5□	140□	15□	110	19.5	210	M20X42	M12	13.5

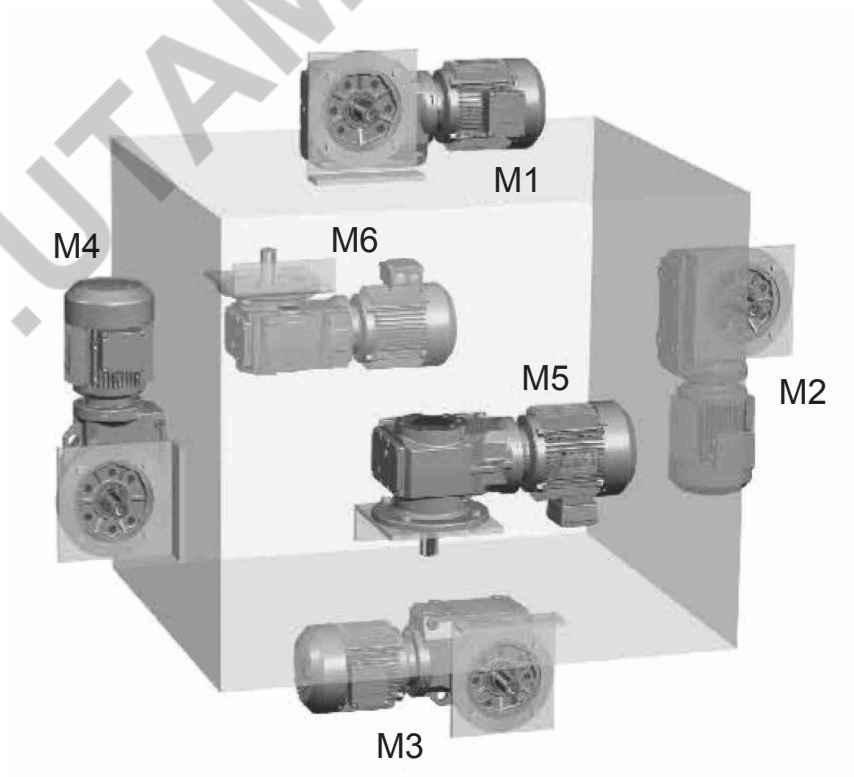


8.1 MOUNTING POSITION DESIGNATION

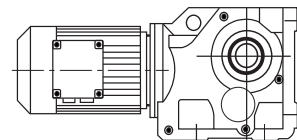
Differentiates between six mounting positions, M1.....M6 for gear units. The following figure shows the spatial orientation of the gearmotor in mounting positions M1 ... M6.



TK..



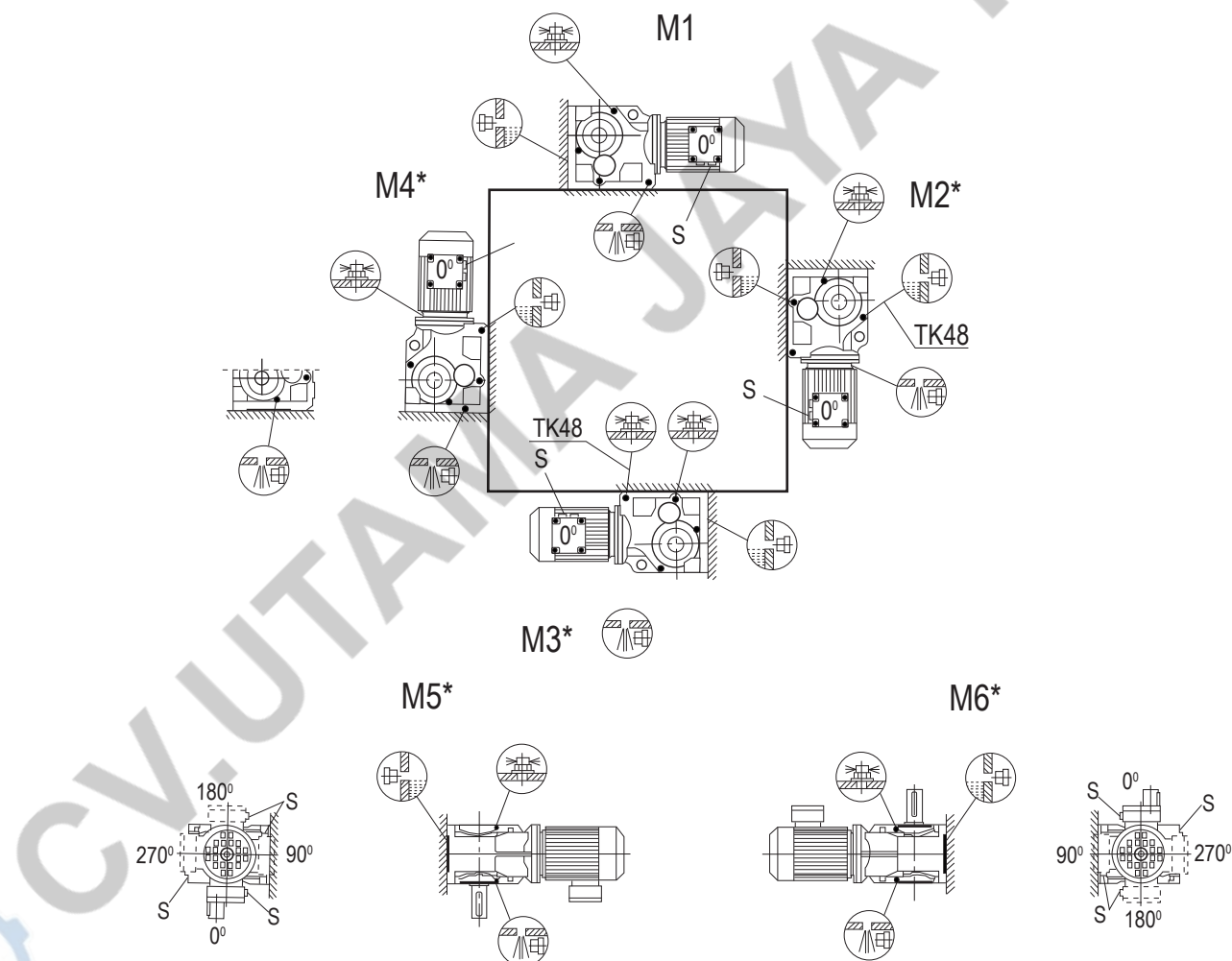
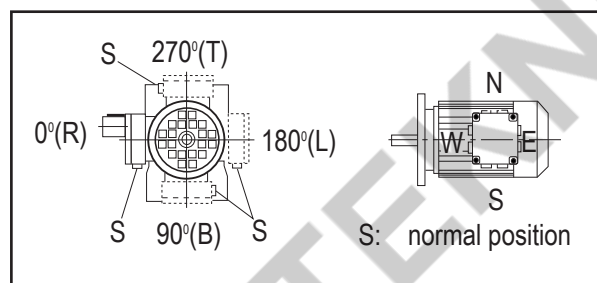
MOUNTING POSITIONS



8.2 MOUNTING POSITION FOR HELICAL-BEVEL GEARMOTORS

TK/TKA..B/TKH37B-157B, TKV37B-107B

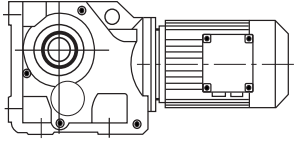
Symbol	Meaning
	Breather valve
	Oil Level Plug
	Oil drain plug



Mounting Position ☐	Gear unit size ☐	Input speed ☐ (r/min) ☐
M2*, M3*, M4*, M5*, M6* ☐	77..107 ☐	> 2500
	> 107 ☐	> 1500

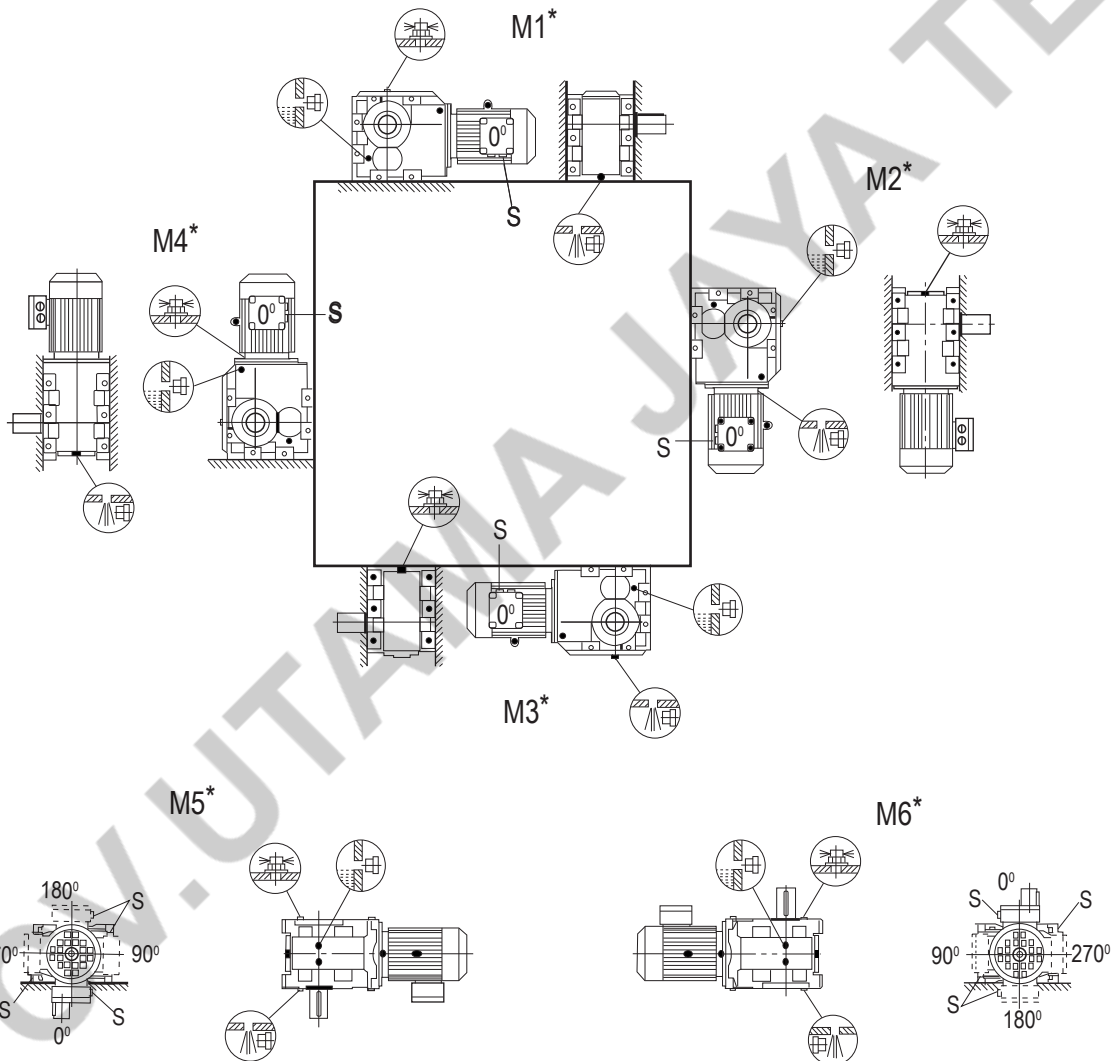
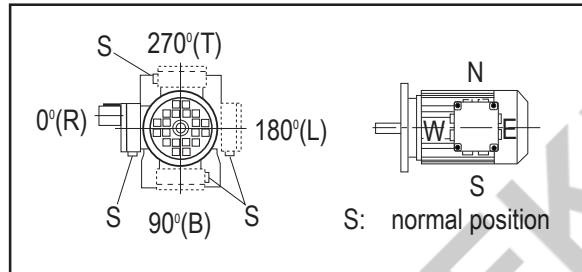
Important: Please refer to the Information in the 'Geared Motors' catalog, Sec. (page 6)

Increased churning losses may arise in some mounting positions. Contact our company in case of the above-mentioned combinations.



TK167-187, TKH167B-187B

Symbol	Meaning
	Breather valve
	Oil Level Plug
	Oil drain plug

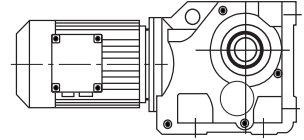


Mounting Position ☐	Gear unit size ☐	Input speed ☐ (r/min) ☐
M2*, M3*, M4*, M5*, M6* ☐	77..107 ☐	> 2500
	> 107 ☐	> 1500

Important: Please refer to the Information in the 'Geared Motors' catalog, Sec. (page 6)

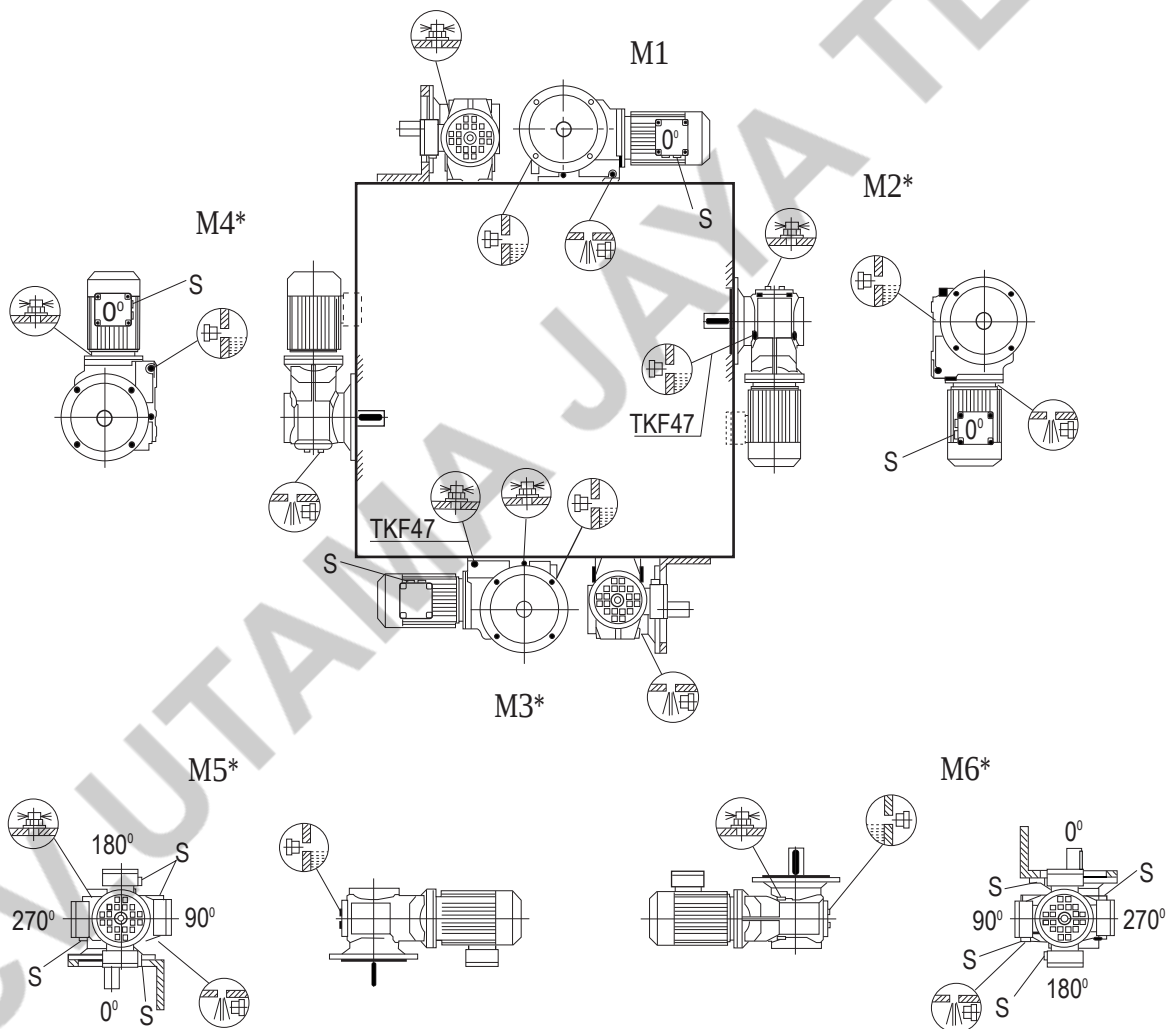
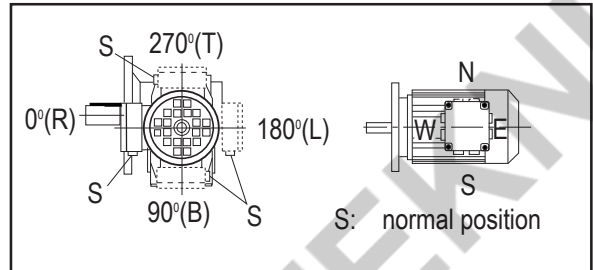
Increased churning losses may arise in some mounting positions. Contact our company in case of the above-mentioned combinations.

MOUNTING POSITIONS



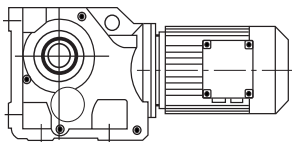
TKF/TKAF/TKHF/TKAZ/TKHZ37-157,TKVF

Symbol	Meaning
	Breather valve
	Oil Level Plug
	Oil drain plug



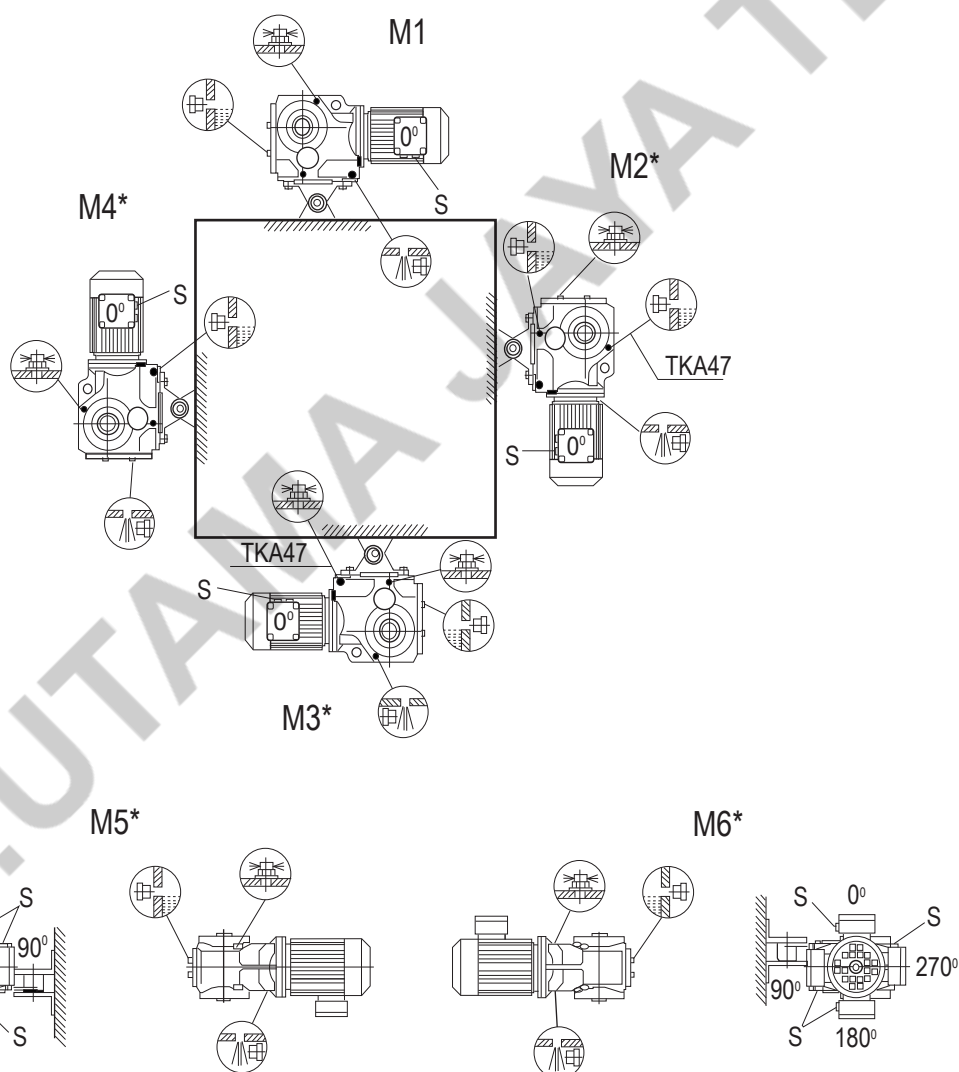
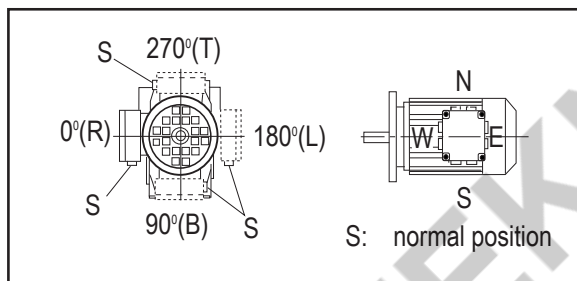
Mounting Position ☐	Gear unit size ☐	Input speed ☐ (r/min) ☐
M2*, M3*, M4*, M5*, M6* ☐	77..107 ☐	> 2500
	> 107 ☐	> 1500

Increased churning losses may arise in some mounting positions. Contact our company in case of the above-mentioned combinations.



TKA/TKH37-157, TKV37-107

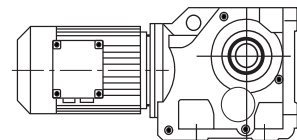
Symbol	Meaning
	Breather valve
	Oil Level Plug
	Oil drain plug



Mounting Position ☐	Gear unit size ☐	Input speed ☐ (r/min) ☐
M2*, M3*, M4*, M5*, M6* ☐	77..107 ☐	> 2500
	> 107 ☐	> 1500

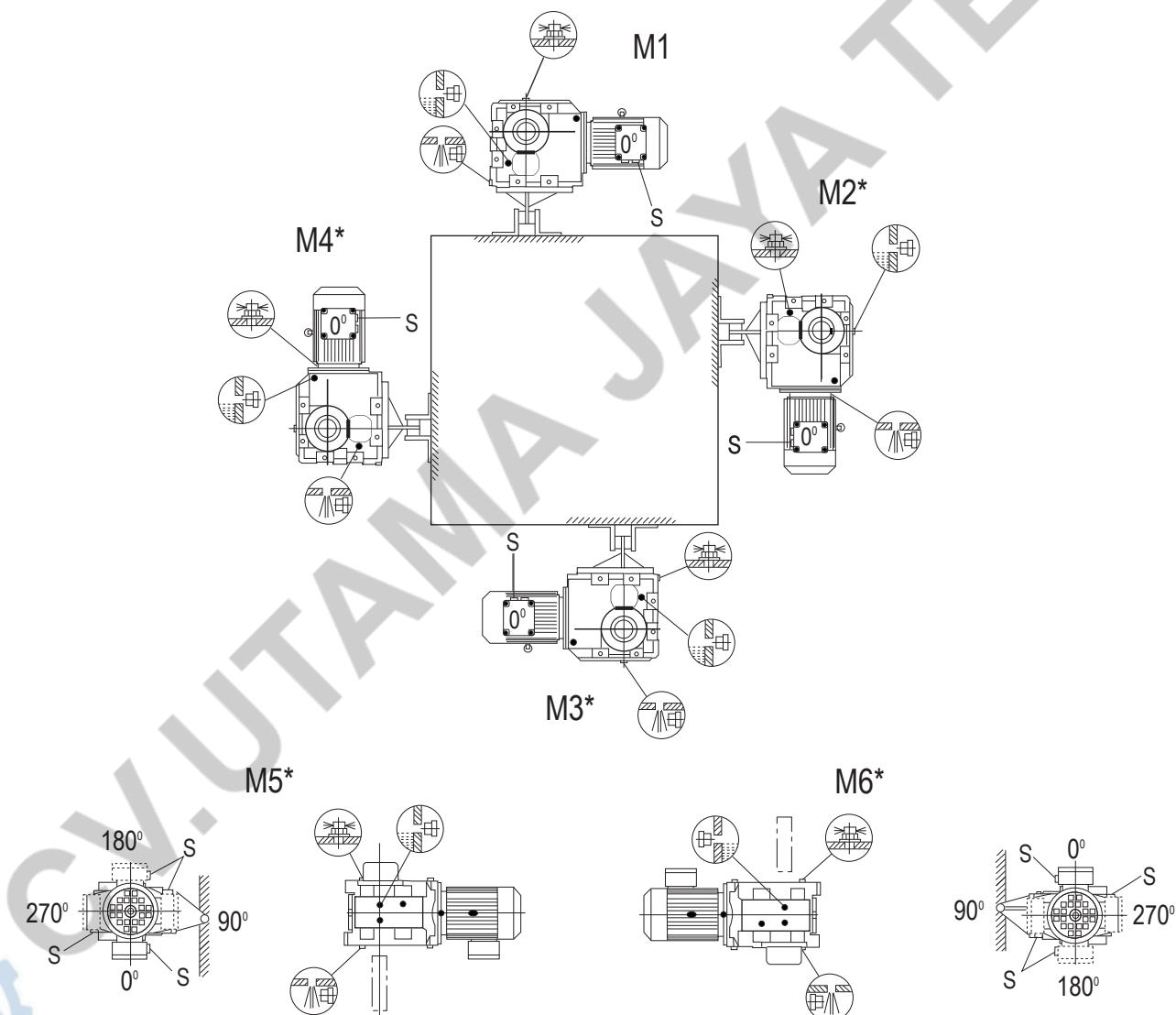
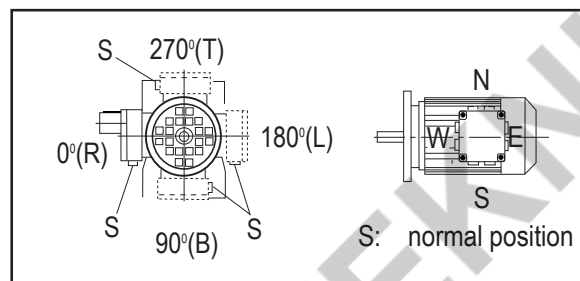
Increased churning losses may arise in some mounting positions. Contact our company in case of the above-mentioned combinations.

MOUNTING POSITIONS



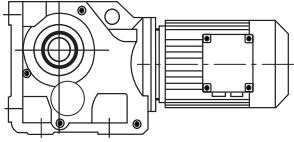
TKH167-187

Symbol	Meaning
	Breather valve
	Oil Level Plug
	Oil drain plug



Mounting Position ☐	Gear unit size ☐	Input speed ☐ (r/min) ☐
M2*, M3*, M4*, M5*, M6* ☐	77..107 ☐	> 2500
	> 107 ☐	> 1500

Increased churning losses may arise in some mounting positions. Contact our company in case of the above-mentioned combinations.



8.3 DIRECTION OF ROTATION

If the drive has a backstop RS, it is also necessary to stipulate the direction of rotation of the drive. The following definition applies looking onto the output shaft:

Clockwise (CW) = Rotating clockwise

Counterclockwise (CCW) = Rotating counterclockwise

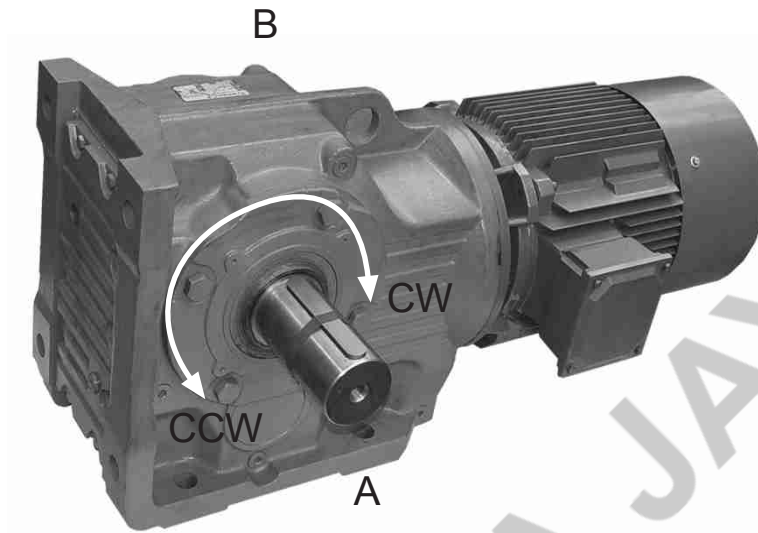


Figure : Direction of rotation of the output. In right-angle gear units it is also necessary to stipulate whether the direction of rotation is given looking onto the A or B end.

8.4 Position of the output shaft and the output flange

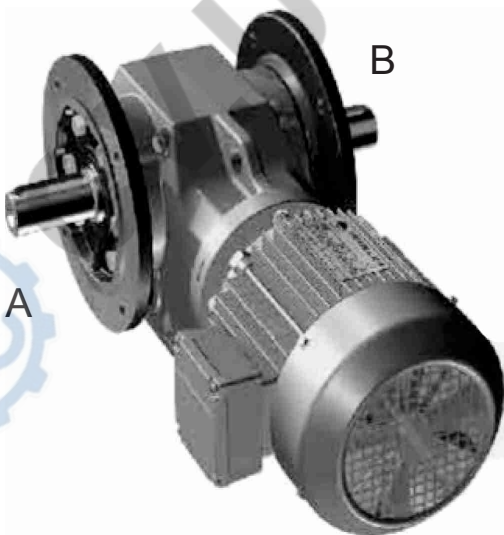
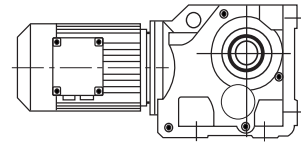


Figure: Position of the output shaft and the output flange

In right-angle gear units, it is also necessary to stipulate the position of the output shaft and the output flange:

A or B or A+B

INSTALLATION METHOD



8.4 Position of the connection end in right-angle gear units

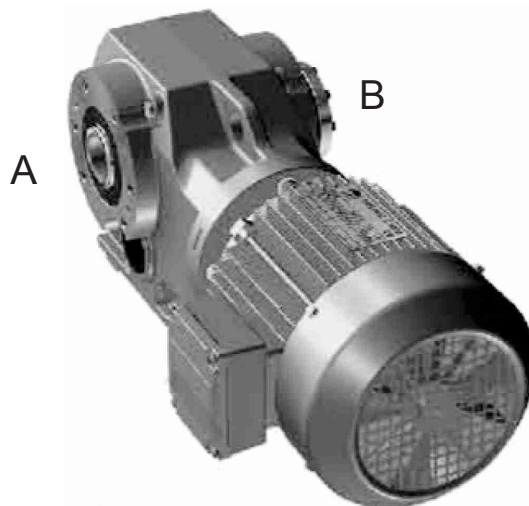


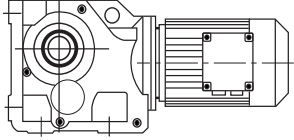
Figure. Position of the connection end In shaft mounted right-angle gear unit with a shrink disk, it is also necessary to stipulate whether the A or B end is the connection end .

In Figure 12: the A end is the connection end ,the shrink disk is located opposite to the connection end.

8.5 Sample Order

Only connection end at bottom is possible with helical-bevel gear units TK167/TK187 in mounting positions N5 and M6.

TYPE (examples)	Mounting position	Shaft with	Flange with	Connection end	Position of shrink disk	Position of terminal box	Position	Direction of rotation of the output
TKF47Y71D4/RS	M2	A	L	-	-	0°	'S'	CW
TSF77Y100L4	MG	A+B	A+B	-	-	90°	'N'	-
TKA97Y132M4	M4	-	-	B	-	270°	'E'	-
TKH107Y100L4	M1	-	-	A	B	180°	'N'	-



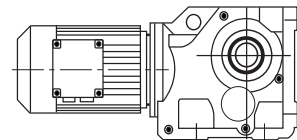
9. INSTALLATION METHODS

9.1. Preparation before the installation:□

- a). Check if the data on the nameplates of the gearmotor matches the voltage □ supply system.□
- b). Check if the drive has not been damaged during transportation and storage.□
- c). For standard gear unit, the ambient temperature must be in accordance □ with the corresponding lubricant table.□
- d). The drive must not be assembled in conditions such as oil, gas, vapors, □ acids, radiation and so on.□
- e). Output shaft and flange surfaces must thoroughly cleaned to ensure they □ are free of anti-corrosion agents, contamination or similar. Use a □ commercially available solvent. Do not let the solvent come into contact □ with the sealing lip of the oil seals, or will damage the material!□
- f). The supporting structure must have the following characteristics: level, □ vibration damping and torsionally rigid.□
- g). So as to prevent the tolerance of fit of gear units from damaging, the parts □ assembled on the gear units must be worked as specified tolerance□ according to ISOH7.

9.2. The installation of the gear units:□

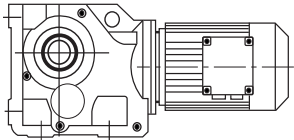
- a). Do not tighten the housing legs and mounting flanges against one another □ and ensure that you comply with the permitted radial load and axial load.□
- b). Never drive belt pulleys, couplings, pinions, etc. onto the shaft end by □ hitting them with a hammer. This will damage the bearing, housing□ and the shaft.□
- c). When installing the IEC couplings, remove the key from the motor shaft □ and replace it with the supplied key. Secure key and coupling half using□ grub screw and tighten to the motor shaft. Seal the contact surface between □ the adapter and motor using a suitable sealing compound.□
- d). Prior to startup, check that if the oil level is as specified for the mounting □ position. if the oil checking and drain screw and the breather valves□ are free accessible.



						lubrication type
	°C -50 0 +50 +100	ISO	SHELL	MOBIL	BP	
TK..	Standard -10 +40	VG 220	Shell Omala 220	Mobilgear 630	BP Energol GR-XP 220	Mineral oil
	-20 +25	VG 150 VG 100	Shell Omala 100	Mobilgear 627	BP Energol GR-XP 100	
	-30 +10	VG 68-46 VG 32	Shell Tellus T 32	Mobil D.T.E. 13M		
	-40 -20	VG 22 VG 15	Shell Tellus T 15	Mobil D.T.E. 11M	BP Energol HLP-HM 15	
	-40 +80	VG 220	Shell Omala HD 220	Mobil SHC 630		Synthetic oil
	-40 +40	VG 150		Mobil SHC 629		
	-40 +10	VG 32		Mobil SHC 624		

10. LUBRICANT FILL QUANTITY ☐

The specified fill quantities are recommended values. The precise values vary depending on the number of stages and gear ratio. When filling, it is essential to check the oil level plug since it indicates the precise oil capacity. The following tables show guide values for lubricant fill quantities in relation to the mounting position M1 ~ M6.



TK...,TKA...B,TKH..B,TKV..B :

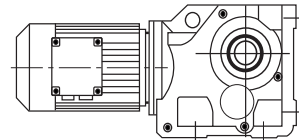
Gear units□	Fill quantity in liters□ (L)					
	Mi□	M2□	M3□	M4□	M5□	MS
TK..37□	0.50□	1.00□	1.00□	1.30□	0.95□	0.95
TK..47□	0.80□	1.30□	1.50□	2.0□	1.60□	1.60
TK..57□	1.20□	2.3□	2.5□	3.0□	2.6□	2.4
TK..67□	1.10□	2.4□	2.6□	3.4□	2.6□	2.6
TK..77□	2.2□	4,1□	4.4□	5.9□	4.2□	4.4
TK..87□	3.7□	8.0□	8.7□	10.9□	8.0□	8.0
TK..97□	7.0□	14.0□	15.7□	20.0□	15.7□	15.5
TK..107□	10.0□	21.0□	25.5□	33.5□	24.0□	24.0
TK..127□	21.0□	41.5□	44.0□	54□	40.0□	41.0
TK..157□	31.0□	62□	62□	90□	58□	62
TK..167□	33.0□	95□	105□	123□	85□	84
TK..187□	53□	152□	167	200	143	143

TKF...:

Gear units□	Fill quantity in liters □ (L)					
	M1□	M2□	M3□	M4□	M5□	MS
TKF37□	0.50□	1.00□	1.00□	1.50□	1.00□	1.00
TKF47□	0.80□	1.30□	1.70□	2.2□	1.60□	1.60
TKF57□	1.30□	2.3□	2/□	3.2□	2.9□	2.7
TKF67□	1.10□	2.4□	2.8□	3.6□	2.7□	2.7
TKF77□	2.1□	4.1□	4.4□	6.0□	4.5□	4.5
TKF87□	3.7□	8.2□	9.0□	11.9□	8.4□	8.4
TKF97□	7.0□	14.7□	17.3□	21.5□	15.7□	16.5
TKF107□	10.0□	22.0□	26.0□	35.0□	25.0□	25.0
TKF127□	21.0□	41.5□	46.0□	55□	41.0□	41.0
TKF157□	31.0□	66□	69□	92	62	62

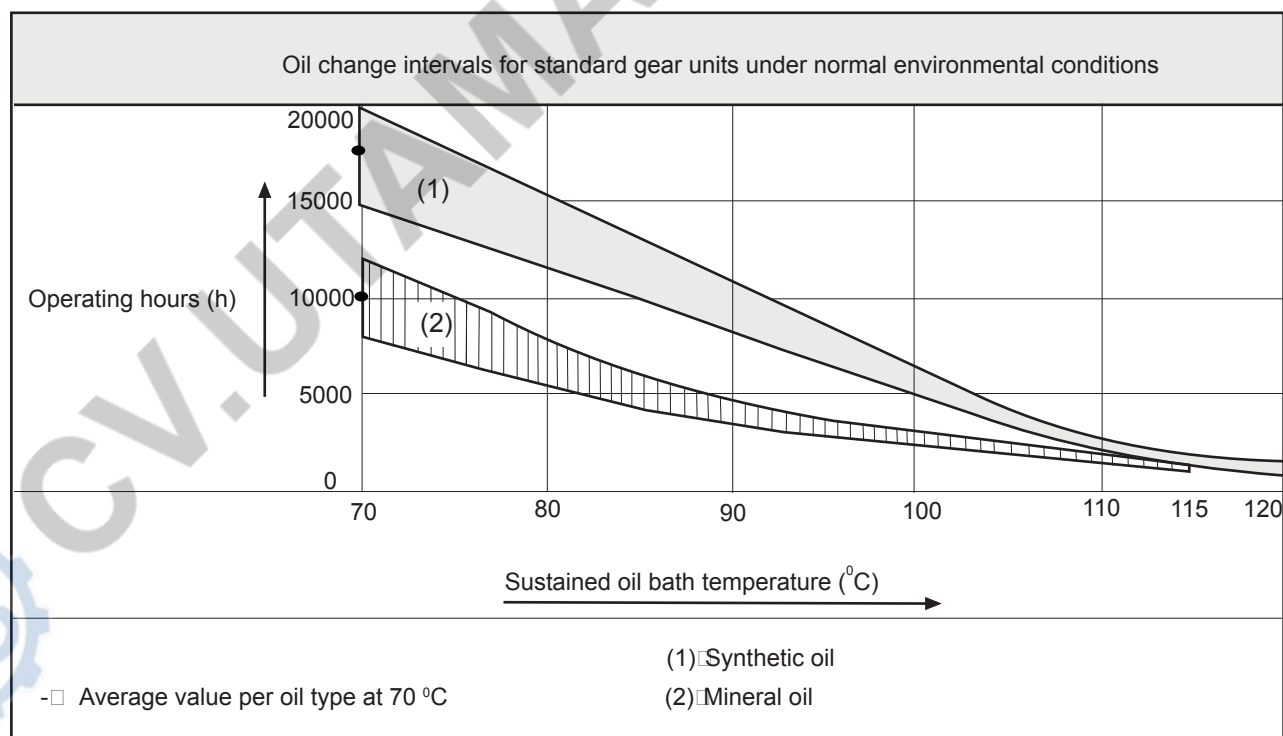
TKA..., TKH..., TKV..., TKAF..., TKHF..., TKAZ..., TKHZ..., TKVH..

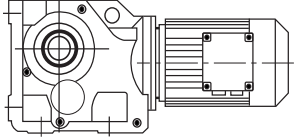
Gear units□	Fill quantity in liters □ (L)					
	M1□	M2□	M3□	M4□	M5□	M6
TK..37□	0.50□	1.00□	1.00□	1.40□	1.00□	1.00
TK..47□	0.80□	1.30□	1.60□	2.1□	1.60□	1.60
TK..57□	1.30□	2.3□	2.7□	3.2□	2.9□	2.7
TK..67□	1.10□	2.4□	2.7□	3.6□	2.6□	2.6
TK..77□	2.1□	4.1□	4.6□	6.0□	4.4□	4.4
TK..87□	3.7□	8.2□	8.8□	11.1□	8.0□	8.0
TK..97□	7.0□	14.7□	15.7□	20.0□	15.7□	15.7
TK..107□	10.0□	20.5□	24.0□	32.0□	24.0□	24.0
TK..127□	21.0□	41.5□	43.0□	52□	40.0□	40.0
TK..157□	31.0□	66□	67□	87□	62□	62
TK..167□	33.0□	95□	105□	123□	85□	84
TK..187□	53□	152□	167	200□	143	143



11. MAINTENANCE

- 1). □ For gear units, first oil change should be after about 300 hours (run-in period). □ The right lotion is required to clean the gear units with care. Never □ mix the synthetic oil and mineral oil together.
- 2). □ Every 3000 working time, at least every 6 months, you have to check the oil □ and oil level, the seals visually for leakage. For IEC input gear units, □ the elastomer should be tested or replaced if necessary.
- 3). □ Depending on the operating conditions (see chart below), every 3 years at □ the latest for inspection is needed. Then change the mineral oil and replace □ the bearing grease.
- 4). □ Depending on the operating conditions, change the oil seals on output shaft.
- 5). □ Once the malfunctions appear, stop disassembling the parts, and firstly please □ contact the customer service (the information about specification, delivery □ date, series number, time used, name of machine, machine manufacturer, □ malfunction problems is required) , then take the reasonable measures.





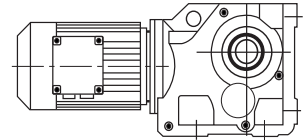
12. STORAGE

- 1). Under roof, protected against rain and snow, no shock loads.
- 2). Underlay the block and other material between the ground and equipment.
- 3). The opened but not used gear units should be added with the anti-corrosive oil on its surface, and then return to the packing containers timely.
- 4). Two years or more given regular inspections. Check for cleanliness and mechanical damage as part of the inspection, Check corrosion

13. NOTICE FOR ORDER

Please offer the following information when place the orders:

- 1). The model mark of the gear units (type, ratio, Power and mounting position).
- 2). Gear units are available with "blue/gray" painting optionally. Unless specified, it offers the blue painting as standard.
- 3). Quantity ordered.
- 4). Other special requirements.
- 5). Company, contact and telephone.



MALFUNCTIONS

14.1. Gear unit malfunction

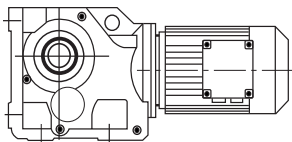
Problem□	Possible cause□	Remedy
Unusual, regular running □ noise□	A. □Meshing/grinding noise. Bearing□ gearing□ B. □Knocking noise: irregularity in the□ damage,	A. Check the oil, change bearings□ B. Contact customer service□
Unusual, irregular running□ noise□	Foreign bodies in the oil□	•□ Check the oil •□ Stop the drive, contact customer□ service
Oil leaking□ • □From the gear cover plate□ • □From the motor flange□ • □From the motor oil seal□ • □From the gear unit flange□ • □From the output end oil seal□	A. □Rubber seal on the gear cover□ plate leaking□ B. □Seal defective□ C. □Gear unit not vented□	A. □Tighten the bolts on the gear cover plate and observe the gear unit. Oil still leaking:Contact customer service B. Contact customer service C. Vent the gear unit (see "Mounting Positions")
Oil leaking from breaking□ valve□	A. □Too much oil□ B. □Drive operated in incorrect mounting□ position□ C. □Frequent cold starts(oil foams)□ and/or high oillevel □	A. Correct the oil level (see Sec. "Inspection and Maintenance")□ B. Mount the breather valve correctly□ (see Sec."Mounting Positions")and□ correct the oil level(see"Lubricants")
Output shaft does not turn□ although the motor is run-□ ning or the input shaft is rotated	Connection between shaft and hub in□ gear unit interrupted□	Send in the gear unitigearmotor for repair

1) Short-term oil/grease leakage at the oil seal is possible in the run-in phase (24 hours running time).

14.2. IEC Coupling unit malfunction

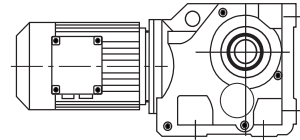
Problem□	Possible cause□	Remedy
Unusual, regular running□ noise□Bearing damage□	Meshing/grinding noise:□ service	Contact our company customer
Oil leaking□	Seal defective□	Contact our company customer□ service
Output shaft does not turn□ although the motor is run-□ ning or the input shaft is rotated	Connection between shaft and h b in □ gear unit interrupted□	Send the gear unit to our company□ for repair.
Change in running noise□ and l or vibrations occur□	A. □Annular gear wear, short-term torque□ transfer through metal contact□ B. □Bolts to secure hub axially are□ loose.	A. □Change the annular gear B. □Tighten the bolts□
Premature wear in annular□ gear□	A. □Contact with aggressive fluids l oil;□ ozone influence; too high ambient□ temperatures etc, which can cause□ a change in the physical properties□ of the annular gear.□ B. □Impermissibly high ambient/contact□ temperature for the annular gear;□ maximum permitted temperature□ -20 °C to +80 °C.□ C. Overload	Contact our company customer service□





15. Charge Charakteristik Chart (for refereance)

AIR BLOWERS□		Hoist gear assembly□	A
Air blower(axial or radial)□	A□	Derrick gear assembly□	B
Fan of cooling tower□	B□	Steering gear assembly□	B
Induced draught fan□	B□	Moving gear assembly□	C
Rotary piston type fan□	B□	LAND DREDGER□	
Turbo-fan□	A□	Drum-type conveyer□	C
CONSTRUCTION MACHINERY□		Drum-type rotation wheel□	C
Concrete mixer□	B□	Dredger head□	C
Hoist□	B□	Powered crab□	B
Road building machinery□	B□	Pump□	B
Boring mill□	B□	Pump turning gear assembly□	B
CHEMICAL MACHINERY□		Moving gear assembly (apron wheel)□	C
Mixer (liquid)□	A□	Moving gear assembly (track)□	B
Mixer (half liquid)□	B□	FOODSTUFF PROCESSING MACHINERY□	
Centrifuge (heavy)□	B□	Placer or box filler□	A
Centrifuge(light)□	A□	Cane crusher□	A
** Cooling rolling drum□	B□	** Cane cutter□	B
** Dry rolling drum□	B□	** Cane crusher□	C
Mixer□	B□	Mixer□	B
COMPRESSOR□		Paste bucket□	B
Piston type compressor□	C□	Packager□	A
Turbo-compressor□	B□	Beet slicer□	B
TRANSMISSION FREIGHTER□		Beet washing machine□	B
Pan conveyer□	B□	MOTOR AND CONVERSION EQUIPMENTS□	
Balance lifter□	B□	Frequency converter□	C
Trough conveyer□	B□	Motor□	C
Ribbon conveyer (large piece)□	C□	Welding motor□	C
Ribbon conveyer (small piece)□	B□	WASHING MACHINE□	
Drum-type flour conveyer□	A□	Rolling drum□	B
Chain conveyer□	B□	Washing machine□	B
Ring type conveyer□	B□	METAL ROLLER MACHINE□	
Lifter□	B□	** Steel cutter□	C
Hoist□	B□	** Chain conveyer□	B
Crank-connecting conveyer□	B□	** Cold mill□	C
Lifter□	B□	Continuous casting equipments□	B
Worm conveyer□	B□	** Cold bed□	B
Steel-band conveyer□	B□	** Cropper□	C
Chain reed-type conveyer□	B□	** Cross steering transmitter□	B
Crab freighter□	B□	** Deruster□	C
HOIST□		** Heavy and medium steel mill□	C
Bracket swing gear assembly	B	** Bar mill	C



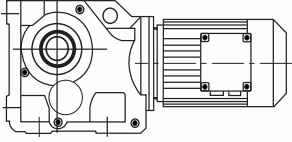
ADDENDUM

BAR TRANSMISSION EQUIPMENT□	B□	PUMPS□	
Bar pusher□	B□	Centrifugal pump (thin liquid)□	A
Push bed□	B□	Centrifugal pump (half liquid)□	B
** Shears□	C□	Displacement pump□	C
** Lumber elevator platform□	B□	Plunger pump□	C
ROLL ADJUSTING EQUIPMENTS□	B□	Force pump□	C
Roller leveling machine□	B□	PLASTIC EQUIPMENTS□	
** Mill rolling way (heavy)□	C□	** Glazing press□	B
** Mill rolling way (light)□	B□	** Ejecting press□	B
** Sheet rolling mill□	C□	** Spiral extruding machine□	B
** Trimming shears□	B□	** Mixing machine□	B
Pipe welder□	C□	RUBBER EQUIPMENT□	
Soldering machine (belt material and wire rod)□	B□	** Glazing press□	B
Wire drawbench□	B□	** Ejecting press□	C
METAL PROCESSING MACHINE TOOLS□		** Mixing stir machine□	C
Power shaft□	A□	Kneading machine□	C
** Forging machine□	C□	** Roller machine□	B
Drop hammer□	C□	STONE PORCELAIN CLAY PROSSEING □	
Machine tool and necessary□	A□	EQUIPMENT□	
Machine tool and main driving equipment□	B□	Ball crusher□	B
Metal facing mahcine□	C□	** Ejecting press and breaker□	C
Plate-leveling machine tool□	C□	Breaker□	C
Backing-out punch□	C□	Brick press□	C
Press machine tool□	C□	** Beating crusher□	C
Cutting machine□	B□	** Converter□	C
Sheet bending machine tool□	B□	** Cylinder mill□	C
PETROLEUM PROCESSING MACHINERY□		TEXTILE MACHINERY□	
** Pump of oil pipe line□	B□	Feeding machine□	B
Rotary drilling equipment□	C□	Loom machine□	B
PAPERING MACHINE□		Dyeing machine□	B
** Glazing press□	C□	Purified drum□	B
** Multilayer paper board machine□	C□	Welon Machine□	B
** Drying cylinder□	C□	WASTER TREATMENT EQUIPMENT□	
** Glazing cylinder□	C□	Air blast□	B
** Masher□	C□	Screw pump□	B
** Mashing and breaking machine□	C□	WOOD PROCESSING MACHINE TOOL□	
** Suction roll□	C□	Barker□	C
** Wet paper roller machine□	C□	Facing machine□	B
** Water absorbing roller machine□	C□	Saw bench□	C
Welon machine	C	Wood processing machine tool	A

Note: A - Uniform load; B - Moderate shock load; C - Heavy shock load; ** - for 24hour system.

YUEMA

Transmission



NOTES

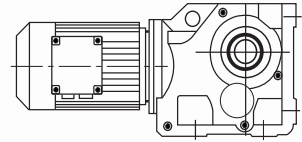
YUEMA
Transmission

YUEMA
Transmission

YUEMA
Transmission

YUEMA
Transmission

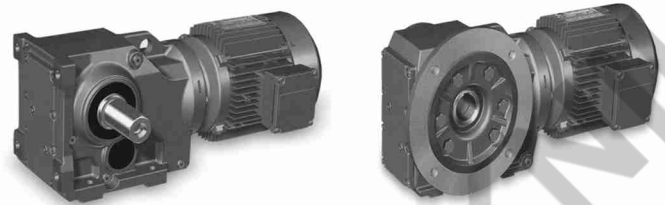
SHOW THE SERIES PRODUCTS



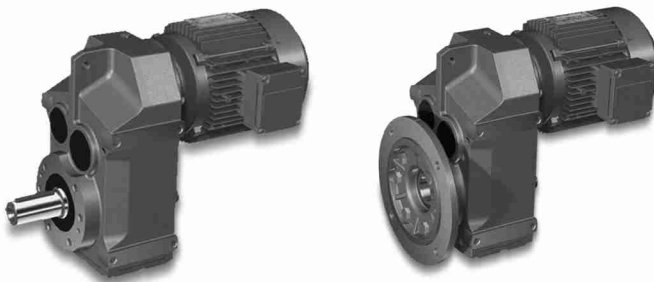
TR Series helical geared motors



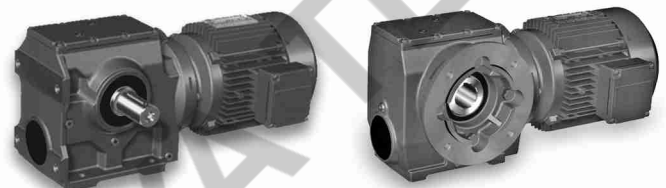
TK Series helical-bevel geared motors



TF Series parallel shaft helical geared motors



TS Series helical-worm geared motors



G3 Series mini helical geared motors



CHC Series mini helical gear units



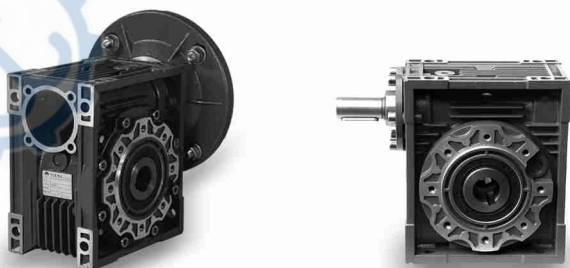
TKB / TKM Series helical bevel geared motors



WP Series worm gear reducer



MRV Series worm, gear units



UDL Series stepless speed variator

